RPF SI Question Papers

ALL 15 Shifts 2024

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Test Date	02/12/2024
Test Time	4:00 PM - 5:30 PM
Subject	Recruitment of Sub Inspector Executive in Railway Protection Force and Railway Protection Special Force

* Note
Correct Answer will carry 1 mark per Question.
Incorrect Answer will carry 1/3 Negative mark per Question.

1. Options shown in green color with a tick icon are correct.
2. Chosen option on the right of the question indicates the option selected by the candidate.

Section : **Arithmetic**

Q.1 *The difference between the smallest and the largest fractions among* $\frac{5}{9}, \frac{7}{7}, \frac{11}{26}, \frac{14}{16}$ *is:*

Ans ✓ 1. $\frac{15}{26}$

✗ 2. $\frac{15}{25}$

✗ 3. $\frac{15}{29}$

✗ 4. $\frac{15}{24}$

Q.2 The price of fuel decreases by 60%, 30% and 20% in three successive months, but increases by 60% in the fourth month. What is the percentage increase/decrease in the price of fuel in the fourth month as compared to its original price?

Ans ✗ 1. Increases by 61.74%

✗ 2. Decreases by 67.12%

✓ 3. Decreases by 64.16%

✗ 4. Increases by 67.33%

Q.3 A person covers certain distance in 2 hours at a speed of 10 km/h and some more distance in 4 hours at a speed of 6 km/h. Find his average speed for the entire distance covered.

Ans ✗ 1. $8\frac{1}{3}$

✗ 2. $6\frac{1}{3}$

✔ 3. $7\frac{1}{3}$

✗ 4. $9\frac{1}{3}$

Q.4 For a positive integer b > 1, if the product of two numbers 6344 and 42b8 is divisible by 12, then find the least value of b.

Ans ✔ 1. 4

✗ 2. 5

✗ 3. 7

✗ 4. 3

Q.5 The smallest 1-digit number to be added to the 6-digit number 405437 so that it is completely divisible by 11 is:

Ans ✗ 1. 3

✗ 2. 2

✔ 3. 1

✗ 4. 4

Q.6 Simplify the following:
$[\{(-0.4)+(4.6)^2+(2.3)^2\}\div 5]-3.24$

Ans ✔ 1. 1.97

✗ 2. 1.79

✗ 3. 1.93

✗ 4. 1.39

Q.7 A train runs at a speed of 84 kmph to cover a distance of 336 km and then at a speed of 96 kmph to cover a distance of 192 km. Find the average speed of the train for the entire distance.

Ans ✔ 1. 88 kmph

✗ 2. 126 kmph

✗ 3. 73 kmph

✗ 4. 104 kmph

Q.8 Ishita and Isha invest in a business in the ratio 31 : 23. If total profit is Rs. 2646, then what is difference between the profit (in Rs.) of Ishita and Isha?

Ans ✗ 1. 292

✗ 2. 242

✔ 3. 392

✗ 4. 442

Q.9 The population of a village was 130000. It increased by 10% in the first year and increased by 25% in the second year. Its population after two years is _____.

Ans ✗ 1. 143000

✗ 2. 162500

✗ 3. 175500

✔ 4. 178750

Q.10 Anmol completes his journey in 10 hours. He covers half the distance at 46 km/h and the rest at 69 km/h. What is the length of the journey (in Km)?

Ans ✗ 1. 561

✗ 2. 556

✗ 3. 549

✔ 4. 552

Q.11 A shopkeeper sells an item for ₹940.8 after giving two successive discounts of 84% and 44% on its marked price. Had he not given any discount, he would have earned a profit of 25%. What is the cost price (in ₹) of the item?

Ans   ✗ 1. 8441

      ✗ 2. 8363

      ✗ 3. 8404

      ✓ 4. 8400

Q.12 A vendor claims to sell wheat at a loss of 25%. But he cheats by using weights that weigh 55% less than what is mentioned on them. What is his profit percentage (rounded off to 2 decimal places)?

Ans   ✗ 1. 66.79

      ✗ 2. 66.89

      ✓ 3. 66.66

      ✗ 4. 66.78

Q.13 Mansi and Neha together invested ₹40400 in a business. At the end of the year, out of a total profit of ₹5000, Mansi's share was ₹1900. What was the investment of Neha?

Ans   ✗ 1. ₹24015

      ✓ 2. ₹25048

      ✗ 3. ₹23380

      ✗ 4. ₹26705

Q.14 The average of eight numbers is 20. The average of five of these numbers is 20. The average of the remaining three numbers is

Ans   ✗ 1. 19

      ✗ 2. 21

      ✓ 3. 20

      ✗ 4. 22

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Q.15 Lalit's average earning per month in the first three months of a year was ₹4080. In April, his earning was 75% more than the average earning in the first three months. If his average earning per month for the whole year is ₹66405, then what will be Lalit's average earning (in ₹) per month from May to December?

Ans ✅ 1. 97185

❌ 2. 97180

❌ 3. 97184

❌ 4. 97183

Q.16 Find the area of polygon ABCDE (in square cm) if AE = 20 cm and AB = 15 cm; quadrilateral BCDE is a square.

Ans ❌ 1. 735 cm^2

❌ 2. 755 cm^2

❌ 3. 715 cm^2

✅ 4. 775 cm^2

Q.17 Which of the following ratio is smallest?

Ans ❌ 1. 30 : 31

❌ 2. 29 : 48

✅ 3. 15 : 44

❌ 4. 22 : 56

Q.18 A water tank is in the form of a right circular cone with radius 3 m and height 14 m. The tank is filled with water at the rate of one cubic metre per second. Find the time taken, in minutes, to fill the tank.

Ans ✅ 1. 2.2

❌ 2. 6.4

❌ 3. 1.5

❌ 4. 13.2

Q.19 A train runs at a speed of 111 kmph to cover a distance of 222 km and then at a speed of 86 kmph to cover a distance of 258 km. Find the average speed of the train for the entire distance.

Ans ✗ 1. 72 kmph

✔ 2. 96 kmph

✗ 3. 86 kmph

✗ 4. 117 kmph

Q.20 Express the following as a vulgar fraction.

$$0.\overline{23} + 0.\overline{2} + 4$$

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Ans ✗ 1. $4\dfrac{5}{99}$

✗ 2. $4\dfrac{45}{11}$

✔ 3. $4\dfrac{5}{11}$

✗ 4. $4\dfrac{42}{11}$

Q.21 400 chickooes were bought at ₹1410 per hundred and were sold at a profit of ₹860. Find the selling price (in ₹) per dozen of chickooes.

Ans ✗ 1. 205

✗ 2. 210

✔ 3. 195

✗ 4. 185

Q.22 The average of eight numbers is 20. The average of five of these numbers is 15. The average of the remaining three numbers is

Ans ✗ 1. 29.33

✗ 2. 30.33

✔ 3. 28.33

✗ 4. 27.33

Q.23 Manish's average earning per month in the first three months of a year was ₹8784. In April, his earning was 25% more than the average earning in the first three months. If his average earning per month for the whole year is ₹99085, then what will be Manish's average earning (in ₹) per month from May to December?

Ans ✔1. 143961

✘2. 143960

✘3. 143958

✘4. 143962

Q.24 The average weight of 8 men is decreased by 3 kg when one of them whose weight is 56 kg is replaced by a new man. What is the weight of the new man?

Ans ✘1. 34 kg

✔2. 32 kg

✘3. 30 kg

✘4. 36 kg

Q.25 Given that $87^{0.27}$ = x, $87^{0.15}$ = y and $x^z = y^6$, then the value of z is close to:

Ans ✔1. 3.33

✘2. 2.15

✘3. 3.16

✘4. 5.77

Q.26 Find the value of $\left[(30 \div 5) \times \left\{ \frac{30}{6} + \frac{19}{1} \times (4-3) \right\} \right]$

Ans ✘1. 155

✘2. 132

✘3. 157

✔4. 144

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Q.27 *The difference between the smallest and the largest fractions among*

$$\frac{3}{8}, \frac{5}{9}, \frac{26}{27}, \frac{15}{32} \text{ is:}$$

Ans   ✗ 1. $\dfrac{127}{213}$

   ✗ 2. $\dfrac{127}{219}$

   ✔ 3. $\dfrac{127}{216}$

   ✗ 4. $\dfrac{127}{214}$

Q.28 Study the given table and answer the question that follows.

The table shows the monthly expenditure (in ₹) of five people on education, rent, food, conveyance and electricity.

Person	Education	Rent	Food	Conveyance	Electricity
A	5000	3800	4800	3500	2000
B	6400	4000	4500	4000	2400
C	5500	3600	4000	3600	1800
D	6000	4200	5000	4400	2200
E	7000	4400	5500	4000	2500

Find the difference between the average amount spent on education and the average amount spent on conveyance.

Ans   ✗ 1. ₹1,698

   ✔ 2. ₹2,080

   ✗ 3. ₹1,845

   ✗ 4. ₹2,460

Q.29 At what rate per cent per annum will a certain sum of money multiply itself by 55 times in 2 years, the interest being compounded annually? [Give your answer correct to 1 decimal place.]

Ans   ✗ 1. 642.9

   ✗ 2. 644.2

   ✔ 3. 641.6

   ✗ 4. 638.5

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Q.30 If $28 \times 8 \times 988 \div \sqrt{2704} = y + 649$, then find the value of y.

Ans ✗ 1. 3617

✗ 2. 3608

✔ 3. 3607

✗ 4. 3609

Q.31 Komal invested a sum of ₹5000 at 20% per annum compound interest, componded annually. If she received an amount of ₹7200 after n years, the value of n is:

Ans ✔ 1. 2

✗ 2. 1.4

✗ 3. 2.5

✗ 4. 3

Q.32 During sale, Raghav bought a notebook marked for ₹44 at 25% discount and a pen marked for ₹15 at 80% discount. How much (in ₹) did he save due to sale?

Ans ✔ 1. 23

✗ 2. 25

✗ 3. 21

✗ 4. 20

Q.33 Find the circumference (in m) of the largest circle that can be inscribed in a rectangle whose dimensions are given as 21 m and 115 m.
$take\ \pi\ = \dfrac{22}{7}$

Ans ✗ 1. 65

✔ 2. 66

✗ 3. 76

✗ 4. 62

Q.34 A sum, when invested at 20% simple interest per annum, amounts to ₹2160 after 3 years. What is the simple interest (in ₹) on the same sum at the same rate in 2 year?

Ans ✗ 1. 1080

✗ 2. 270

✗ 3. 2160

✔ 4. 540

Q.35 Which of the following fractions is the largest?

$$\frac{5}{9}, \frac{3}{79}, \frac{14}{45}, \frac{34}{79}$$

Ans ✔ 1. $\frac{5}{9}$

✗ 2. $\frac{14}{45}$

✗ 3. $\frac{34}{79}$

✗ 4. $\frac{3}{79}$

Section : General Intelligence and Reasoning

Q.36 A is the daughter of C's sister B. D is the father of C's husband E. How is A related to D?

Ans ✗ 1. Son's wife's brother's sister

✗ 2. Wife's brother's sister

✔ 3. Son's wife's sister's daughter

✗ 4. Wife's sister's daughter

Q.37 Which of the following letter-clusters will replace the question mark (?) in the given series to make it logically complete?

OEK 16 PJN 9 ? RTT −11 SYW −24

Ans ✗ 1. OUI 9

✗ 2. QIO 7

✔ 3. QOQ 0

✗ 4. ROP 3

Q.38 If 1 is added to each odd digit and 2 is subtracted from each even digit in the number 7318456, what will be the sum of the digits that are second from the left and second from the right in the new number thus formed?

Ans ✗ 1. 14

✔ 2. 10

✗ 3. 8

✗ 4. 12

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Q.39 In a certain code language, 'WARD' is coded as '2619' and 'DART' is coded as '4962'. What is the code for 'T' in the given code language?

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Ans ✔ 1. 4

✗ 2. 9

✗ 3. 6

✗ 4. 2

Q.40 P, Q, R, U, V and W live on six different floors of the same building. The lowermost floor in the building is numbered 1, the floor above it is numbered 2 and so on till the topmost floor, which is numbered 6.

V lives on floor number 5. P lives on a floor above V. Only U lives below R. W lives on an even numbered floor. How many people live below Q?

Ans ✗ 1. Three

✗ 2. One

✗ 3. Four

✔ 4. Two

Q.41 Each of P, Q, R, S, T, U and V go to swim on a different day of a week starting from Monday and ending on Sunday of the same week. P goes to swim on Saturday. Exactly three people go to swim between P and U. Exactly two people go to swim between U and T. Exactly two people go to swim between Q and R. Exactly three people go to swim between S and V. Exactly two people go to swim between S and R.

When does T go to swim?

Ans ✗ 1. Tuesday

✗ 2. Monday

✔ 3. Friday

✗ 4. Sunday

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Q.42 Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusion(s) logically follow(s) from the statements.

Statements:
All stoves are cylinders.
All cylinders are mixers.
Some cylinders are grinders.

Conclusions:
(I) Some grinders are cylinders.
(II) Some mixers are grinders.

Ans ✓1. Both conclusions (I) and (II) follow.

✗2. Neither conclusion (I) nor (II) follows.

✗3. Only conclusion (I) follows.

✗4. Only conclusion (II) follows.

Q.43 I, J, K, L, P, Q and R are sitting around a square table facing the centre of the table. Only two people sit to the right of K. Only two people sit between K and R. Only two people sit between I and Q. Q sits to the immediate left of K. L sits to the immediate right of P. Who sits at the third position from the left end of the line?

Ans ✗1. I

✓2. J

✗3. K

✗4. P

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Q.44 Each of P, Q, R, S, T, U and V has an exam on a different day of a week starting from Monday and ending on Sunday of the same week. R has an exam on Wednesday. Exactly 3 people have an exam between R and U. V has an exam immediately after S and Q has an exam immediately before S. Only 3 people have an exam between P and S. Who has an exam on Monday?

Ans ✔ 1. P

✖ 2. V

✖ 3. U

✖ 4. Q

Q.45 Based on the English alphabetical order, three of the following four letter-clusters are alike in a certain way and thus form a group. Which letter-cluster DOES NOT belong to that group?

(Note: The odd man out is not based on the number of consonants/vowels or their position in the letter-cluster.)

Ans ✖ 1. BHK

✔ 2. RWZ

✖ 3. PVY

✖ 4. IOR

Q.46 E, A, R, T and H each have different age. Only four people are younger than R. There are only two people who are aged between T and A. H is younger than E but elder than A. How many people are elder than E?

Ans ✔ 1. Two

✖ 2. Three

✖ 3. One

✖ 4. Four

Q.47 If 'A' stands for '÷', 'B' stands for '×', 'C' stands for '+' and 'D' stands for '−', what will be come in place of question mark '?' in the following equation?
3 B 41 A 3 D 34 C 17 = ?

Ans ✖ 1. 25

✖ 2. 22

✖ 3. 26

✔ 4. 24

Q.48 Refer to the following letter, symbol series and answer the question that follows. Counting to be done from left to right only.

(Left) F & L A V @ * K Z > N E $ B = M U & # T £ G € Z (Right)

How many such symbols are there each of which are immediately preceded by a letter and also immediately followed by another symbol?

Ans ✗ 1. One

✗ 2. Three

✔ 3. Two

✗ 4. Four

Q.49 29 is related to 30.6 following a certain logic. Following the same logic, 35.2 is related to 36.8. To which of the given options is 32 related to, following the same logic?

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 – Operations on 13 such as adding/subtracting/multiplying to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

Ans ✗ 1. 34.6

✗ 2. 34.8

✗ 3. 33.8

✔ 4. 33.6

Q.50 This question is based on the five, three-digit numbers given below.

(Left) 479 152 937 512 738 (Right)

(Example- 697 – First digit = 6, second digit = 9 and third digit = 7)

NOTE: All operations to be done from left to right.

If all the numbers are arranged in ascending order, the position(s) of how many numbers will remain unchanged?

Ans ✗ 1. 3

✗ 2. 2

✓ 3. 0

✗ 4. 1

Q.51 In a certain code language, 'OWNS' is coded as '4957' and 'NEWS' is coded as '9247'. What is the code for 'E' in that language?

Ans ✗ 1. 4

✗ 2. 7

✗ 3. 9

✓ 4. 2

Q.52 Ram starts from Point A and drives 6 km towards East. He then takes a right turn, drives 2 km, turns right and drives 3 km. He then takes a left turn and drives 4 km. He takes a final right turn, drives 3 km and stops at Point B. How far (shortest distance) and towards which direction should he drive in order to reach Point A again? (All turns are 90 degree turns only unless specified.)

Ans ✔ 1. 6 km towards North

✘ 2. 9 km towards East

✘ 3. 9 km towards North

✘ 4. 6 km towards South

Q.53 This question is based on the following words.

PAD SHE NOT WIN

If in each of the words, each letter is changed to the next letter in the English alphabetical order, how many words thus formed will have no vowel?

Ans ✘ 1. 1

✘ 2. 2

✘ 3. 3

✔ 4. 0

Q.54 In a certain code language,

A + B means 'A is the sister of B',

A − B means 'A is the father of B',

A x B means 'A is the brother of B' and

A ÷ B means 'A is the wife of B'.

How is P related to T if 'P x Q ÷ R − S + T'?

Ans ✘ 1. Sister's husband

✘ 2. Father's brother

✔ 3. Mother's brother

✘ 4. Daughter's son

Q.55 Which of the following letter-clusters should replace # and % so that the pattern and relationship followed between the letter-cluster pair on the left side of :: is the same as that on the right side of :: ?

: USN :: PNI : %

Ans ✗ 1. # = LKP, % = MKJ

✗ 2. # = MUP, % = NKJ

✓ 3. # = WUP, % = NLG

✗ 4. # = MKI, % = NMJ

Q.56 LMN starts from Point A and drives 18 km towards East. He then takes a right turn, drives 13 km, turns right and drives 29 km. He then takes a right turn and drives 17 km. He takes a final right turn, drives 11 km and stops at Point P. How far (the shortest distance) and towards which direction should he drive in order to reach Point A again? (All turns are 90° turns only, unless specified.)

Ans ✓ 1. 4 km towards south

✗ 2. 9 km towards north

✗ 3. 1 km towards north

✗ 4. 3 km towards south

Q.57 RN 13 is related to TM -6 in a certain way. In the same way, LO 9 is related to NN -10. To which of the following is OS 3 related, following the same logic?
(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 – Operations on 13 such as adding/subtracting/multiplying to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

Ans ✗ 1. PS -19

✓ 2. QR -16

✗ 3. PR -14

✗ 4. QT -16

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Q.58 What should come in place of the question mark (?) in the given series based on the English alphabetical order?

TVO RTM PRK NPI ?

Ans ✗ 1. LMH

✗ 2. LNH

✔ 3. LNG

✗ 4. LMG

Q.59 Which of the following letter-clusters should replace # and % so that the pattern and relationship followed between the letter-cluster pair on the left side of :: is the same as that on the right side of :: ?

: LNI :: QSN : %

Ans ✗ 1. # = JHD, % = MJP

✗ 2. # = LKD, % = VML

✔ 3. # = GID, % = VXS

✗ 4. # = JDD, % = VNH

Q.60 Refer to the following number and symbol series and answer the question that follows. Counting to be done from left to right only.
(Left) # 9 3 6 9 & & © 9 € 9 8 © 4 $ # 3 4 $ * € £ (Right)
How many such symbols are there which are immediately preceded by a number and also immediately followed by a symbol?

Ans ✗ 1. 2

✗ 2. 4

✔ 3. 3

✗ 4. 5

Q.61 Based on the English alphabetical order, three of the following four letter-cluster pairs are alike in a certain way and thus form a group. Which letter-cluster pair DOES NOT belong to that group? (Note: The odd one out is not based on the number of consonants/vowels or their position in the letter-cluster.)

Ans ✔ 1. KO-RN

✗ 2. NR-UP

✗ 3. QU-XS

✗ 4. BF-ID

Q.62 What will come in place of the question mark (?) in the following equation, if '+' and '−' are interchanged and '×' and '÷' are interchanged?
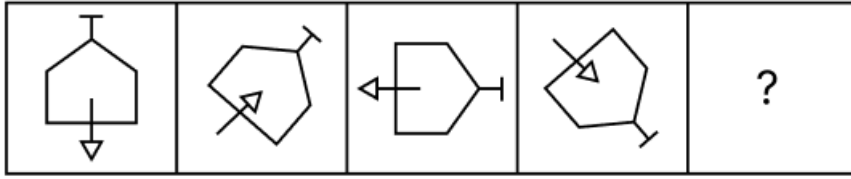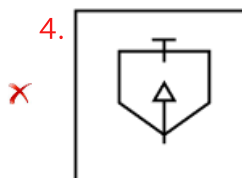
$30 ÷ 3 + 14 × 2 − 6 = ?$
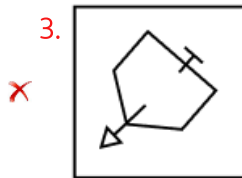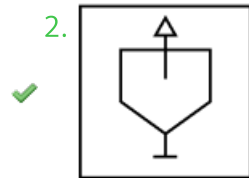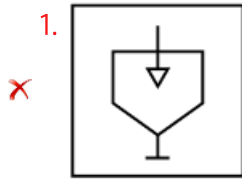
Ans ✗ 1. 87

✔ 2. 89

✗ 3. 91

✗ 4. 85

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Q.63 Identify the figure given in the options which when put in place of the question mark (?) will logically complete the series.

Ans   1.   ✗

       2.   ✔

       3.   ✗

       4.   ✗

Q.64 In the following number-pairs, the second number is obtained by applying certain mathematical operations to the first number. Select the set in which the numbers are related in the same way as are the numbers of the following sets.

(Note: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 – Operations on 13 such as adding/subtracting/multiplying to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

56, 63.4
84, 91.4

Ans ✗ 1. 42, 46.4

✗ 2. 33, 50.4

✓ 3. 71, 78.4

✗ 4. 95, 112.4

Q.65 Select the number from among the given options that can replace the question mark (?) in the following series.

13 22 40 67 103 ?

Ans ✗ 1. 144

✓ 2. 148

✗ 3. 155

✗ 4. 152

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Q.66 Three of the following four letter-cluster pairs are alike in a certain way and thus form a group. Which is the letter-cluster pair that does NOT belong to that group?

(Note: The odd one out is not based on the number of consonants/vowels or their positions in the letter-cluster.)

Ans ✗ 1. RO - LI

✗ 2. JG - DA

✗ 3. LI - FC

✓ 4. VX - RP

Q.67 In a certain code language, 'inspire others daily' is written as 'lo ab ef' and 'daily routine matters' is coded as 'mo ef tu'. How is 'daily' coded in the given language?

Ans ✓ 1. ef

✗ 2. mo

✗ 3. ab

✗ 4. tu

Q.68 Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.

M

ZPLERT6

N

Ans ✗ 1. 6TЯƎZPL

✗ 2. RT6E⅃9Ƨ

✗ 3. 6TER⅃9Ƨ

✓ 4. 6TЯƎ⅃9Ƨ
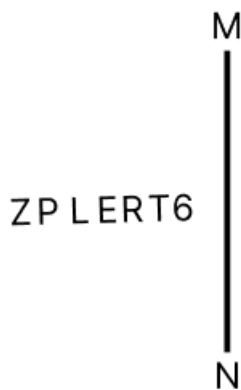
Q.69 Seven people, A, B, C, D, E, F and G, are sitting in a row, facing north. Only two people sit between G and C. Only D sits to the right of F. Only one person sits between C and F. A sits at some place to the right of E but at some place to the left of B.
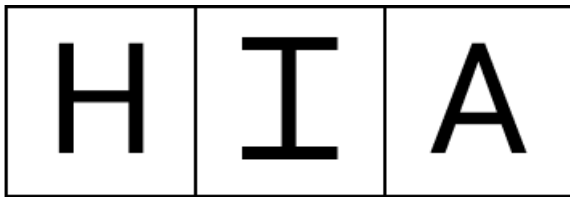
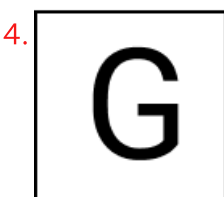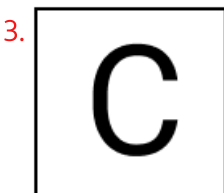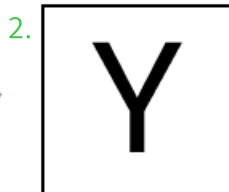How many people sit to the right of A?

Ans ✗ 1. 3

✔ 2. 4

✗ 3. 2

✗ 4. 1

Q.70 The 3 figures given below are alike in a certain way as they share certain feature(s). Select the option that shares the same features as the given figures.

H	I	A

Ans 1.
✗ D

2.
✔ Y

3.
✗ C

4.
✗ G

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Q.71 Who is credited with systematising the Hindustani Ragas under the 'Thaat' system?

Ans ✗ 1. Ustad Vilayat Khan

✗ 2. Miyan Tansen

✗ 3. Pandit Jasraj

✓ 4. Pandit Vishnu Narayan Bhatkhande

Q.72 Which of the following arguments is NOT in favour of globalisation?

Ans ✗ 1. It promises better future prospects for large industries of developing countries

✗ 2. It is enabled with advanced technology

✓ 3. It compromises the welfare of the people of the developing countries

✗ 4. It provides greater access to global markets

Q.73 From which coast, India Successfully carried out a test launch of tactical ballistic missile Prithvi-II on January 10, 2023?

Ans ✗ 1. Karnataka

✗ 2. West Bengal

✓ 3. Odisha

✗ 4. Gujarat

Q.74 The Dark Patterns Buster Hackathon was launched by the Indian government in October 2023 to develop apps, plug-ins, add-ons etc. to identify dark patterns in _____.

Ans ✗ 1. artificial intelligence based chatbots

✗ 2. online drug dealing

✓ 3. e-Commerce platforms

✗ 4. cyber security

Q.75 In which of the following places was the Prarthana Samaj set up?

Ans ✗ 1. Calcutta

✗ 2. Nagpur

✓ 3. Bombay

✗ 4. Allahabad

Q.76 The National Commission on Agriculture (1976) of India has classified social forestry into three categories:

Ans ✅ 1. Urban Forestry, Rural Forestry and Farm Forestry

❌ 2. Urban Forestry, Semi Urban Forestry and Rural Forestry

❌ 3. Urban Forestry, Tribal Forestry and Wild Forestry

❌ 4. Urban Forestry, Semi Urban Forestry and Wild Forestry

Q.77 India's Lakshya Sen lost his men's singles bronze medal match at the Paris 2024 Olympics badminton tournament against a player of which country?

Ans ❌ 1. China

❌ 2. Indonesia

❌ 3. Thailand

✅ 4. Malaysia

Q.78 Which of the following is the primary function of the cell membrane?

Ans ❌ 1. Storing genetic information

❌ 2. Providing structural support

✅ 3. Regulating the passage of substances in and out of the cell

❌ 4. Synthesising proteins

Q.79 By which of the following processes, do plants release water from the structures called 'hydathodes', on the edges or margins of leaves?

Ans ❌ 1. Cytomixis

❌ 2. Wilting

❌ 3. Cavitation

✅ 4. Guttation

Q.80 Which of the following is INCORRECT in relation to the Indian political system?

Ans ❌ 1. Parliamentary system of government

❌ 2. Quasi federal system

✅ 3. Presidential system of government

❌ 4. Secular state

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Q.81 Earth's magnetism is caused by the:

Ans   ✓ 1. dynamo effect

✗ 2. Magnus effect

✗ 3. Doppler effect

✗ 4. solar effect

Q.82 Pala Rulers were primarily great patrons of which religion/sect?

Ans   ✓ 1. Buddhism

✗ 2. Vaishnavism

✗ 3. Shaivism

✗ 4. Jainism

Q.83 Which Indian Nobel Peace Laureate credited with innovative approach to Child Empowerment through Bal Mitra Gram and Bal Panchayat was made the Sustainable Development Goals Advocate for 2021-2023?

Ans   ✗ 1. Abhijit Banerjee

✗ 2. Amartya Sen

✓ 3. Kailash Satyarthi

✗ 4. Venkatraman Ramakrishnan

Q.84 There were constant conflicts between Vijayanagar and _____ over the control of the Raichur doab, which was the land between the rivers Krishna and Tungabhadra.

Ans   ✓ 1. Bahmani

✗ 2. Ahmednagar

✗ 3. Golconda

✗ 4. Bidar

Q.85 Which of the following is the Average propensity to save?

Ans   ✓ 1. It is the savings per unit of income.

✗ 2. It is the change in consumption per unit change in income.

✗ 3. It is the consumption per unit income.

✗ 4. It is the change in saving per unit change in income.

Q.86 Who wrote the book 'Reenchantment - Masterworks of Sculpture in Village Temples of Bihar and Orissa'?

Ans ✗ 1. Hermann Hesse

✗ 2. Ralph Waldo Emerson

✓ 3. Robert N. Linrothe

✗ 4. Henry David Thoreau

Q.87 Mahmud Gawan was granted the title of Chief of the Merchants or Malik-ut-Tujjar by _____.

Ans ✓ 1. Humayun Shah

✗ 2. Muhammmad Shah

✗ 3. Ahmad III

✗ 4. Bahman Shah

Q.88 According to the ancient Indian history, Sulvasutras was related to which of the following?

Ans ✗ 1. Science

✓ 2. Geometry

✗ 3. Economics

✗ 4. Architecture

Q.89 What is the term used to describe the different forms of a gene?

Ans ✗ 1. Phenotype

✗ 2. Genotype

✓ 3. Allele

✗ 4. Chromosome

Q.90 As per announcement made by the All India Football Federation on 2 October 2024, which city will host the final rounds of the 78th National Football Championship for the Santosh Trophy?

Ans ✗ 1. Lucknow

✗ 2. Shillong

✓ 3. Hyderabad

✗ 4. Guwahati

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Q.91 Which of the following statements is true with respect to cropping seasons in India?

Ans ✔ 1. Zaid is a short summer cropping season for cultivating watermelons, cucumbers, vegetables and fodder crops on irrigated lands.

✘ 2. The rabi season begins in October-November and facilitates the cultivation of temperate and subtropical crops such as rice, cotton, jute, jowar and bajra.

✘ 3. The kharif season begins with the onset of winter in October-November and ends in March-April under which the cultivation of tropical crops such as rice, cotton, jute, jowar and bajra is possible.

✘ 4. The kharif season largely coincides with the southwest monsoon under which tropical crops such as wheat, gram and mustard are cultivated.

Q.92 Dena bank was merged with which public sector bank?

Ans ✘ 1. Indian Bank

✘ 2. Punjab National Bank

✘ 3. State Bank of India

✔ 4. Bank of Baroda

Q.93 Provisions of Directive Principles of State policy are under:

Ans ✘ 1. Articles 32-45

✘ 2. Articles 32-42

✘ 3. Articles 32-52

✔ 4. Articles 36-51

Q.94 Which of the following Parts of the Indian constitution deals with District Judiciary of India?

Ans ✘ 1. IV

✔ 2. VI

✘ 3. III

✘ 4. V

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Q.95 The UN Trade and Development (UNCTAD) and the Government of Barbados organised the first Global Supply Chain Forum in Barbados in which month in 2024?

Ans ✗ 1. September

✗ 2. March

✓ 3. May

✗ 4. August

Q.96 Select the correct option if pH=pKa in the Henderson-Hasselbalch equation.

Ans ✓ 1. [HA]=[A⁻]

✗ 2. [HA]<[A⁻]

✗ 3. [HA]>[A⁻]

✗ 4. [HA]=log[A⁻]

Q.97 Which of the following authorities constitute the Ethics Committee in the Rajya Sabha?

Ans ✗ 1. the Speaker of the Lok Sabha

✗ 2. The Prime Minister

✗ 3. The President

✓ 4. The Chairman of the Rajya Sabha

Q.98 Kristalina Georgieva has been re-appointed as the MD of which international organisation for a second 5-year term starting from 1 October 2024?

Ans ✗ 1. United Nations Children's Fund

✗ 2. World Health Organization

✗ 3. Food and Agriculture Organization

✓ 4. International Monetary Fund

Q.99 Which of the following is the main characteristic of the convergent plate boundary?

Ans ✗ 1. Plates slide past each other horizontally.

✗ 2. Plates move away from each other.

✗ 3. Plates move in the same direction.

✓ 4. Plates come towards each other.

Q.100 Which of the following names of 'slash and burn' agriculture is related to India?

Ans ✗ 1. Masole

✗ 2. Roca

✓ 3. Koman

✗ 4. Conuco

Q.101 Which of the following was the objective of the Setu Bharatam project unveiled by PM Narendra Modi on 4 March 2016?

Ans ✗ 1. To enhance connectivity between rural and urban areas

✓ 2.
To remove railway crossings from all national highways

✗ 3. To construct bridges and overpasses on all major rivers

✗ 4. To improve the quality of roads and highways across the country

Q.102 Who among the following announced the establishment of two National Centres of Excellence (NCOE) exclusively for women on the occasion of International Women's Day on 8 March 2024?

Ans ✗ 1. Union Minister of Women and Child Development, Annpurna Devi

✗ 2. President of India, Droupadi Murmu

✓ 3. Sports Minister of India, Anurag Thakur

✗ 4. Prime Minister of India, Narendra Modi

Q.103 In which year did C Rajagopalachari voice the demand for a constituent assembly based on adult franchise?

Ans ✗ 1. 1938

✓ 2. 1939

✗ 3. 1940

✗ 4. 1937

Q.104 Who among the following was the Architect of the 'Victoria Memorial' in India?

Ans   ✗ 1. Erbert Baker

     ✔ 2. William Emerson

     ✗ 3. Arthur Shoosmith

     ✗ 4. George Gilbert Scott

Q.105 A UV light is passed from an optical fiber into air at an angle of 45° and the refractive index of the fiber is √2. The angle of refraction will be:

Ans   ✗ 1. 30°

     ✔ 2. 90°

     ✗ 3. 0°

     ✗ 4. 60°

Q.106 Which of the following is NOT a sub-scheme under the PRITHVI scheme of the Ministry of Earth Sciences?

Ans   ✗ 1. Atmosphere and Climate Research-Modelling Observing Systems and Services (ACROSS)

     ✗ 2. Seismology and Geosciences (SAGE)

     ✔ 3. Ocean Modelling Agenda (OMEGA)

     ✗ 4. Polar Science and Cryosphere Research (PACER)

Q.107 Fort William College was founded by _____ to train the young British recruits to the civil services in India.

Ans   ✗ 1. Lord Dalhousie

     ✗ 2. Lord Mayo

     ✔ 3. Lord Wellesley

     ✗ 4. Warren Hastings

Q.108 What unique role does the Small Industries Development Bank of India (SIDBI) play in the growth of SMEs?

Ans   ✔ 1. Facilitating access to finance for small and medium enterprises

     ✗ 2. Providing direct funding to agricultural projects

     ✗ 3. Regulating the pharmaceutical industry

     ✗ 4. Granting educational loans

Q.109 Which of the following is NOT a component of privatisation?

Ans ✔1. Public management

✘2. Certain volume of Government control of PPP

✘3. Private ownership

✘4. Private control

Q.110 In the Thar desert, the day temperature can soar up to 50ºC, while at night, it can drop to as low as 15ºC. Based on the statement, which of the following types of temperature variation is observed in the Thar desert?

Ans ✔1. Extreme variation between day and night

✘2. Constant temperature

✘3. Minimal variation

✘4. Moderate variation

Q.111 Who among the following was awarded with the prestigious International Astronautical Federation World Space Award in October, 2024?

Ans ✘1. P Veeramuthuvel

✘2. K Sivan

✔3. S Somanathan

✘4. L Murugan

Q.112 Who among the following is credited as the originator of the Kirana gharana, a prominent lineage in Hindustani classical music?

Ans ✔1. Ustad Abdul Karim Khan

✘2. Pandit Vishnu Digambar Paluskar

✘3. Pandit Bhimsen Joshi

✘4. Ustad Allauddin Khan

Q.113 Under which writ the court orders a lower court or another authority to transfer a matter pending before it to the higher authority or court?

Ans ✘1. Prohibition

✔2. Certiorari

✘3. Mandamus

✘4. Habeas Corpus

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Q.114 Which of the following years is called the great divide year because of the all time low population of India?

Ans ✗ 1. 1911

   ✓ 2. 1921

   ✗ 3. 1941

   ✗ 4. 1931

Q.115 Which of the following Articles of the Indian Constitution deals with the extent of executive power of the Union?

Ans ✗ 1. Article 61

   ✗ 2. Article 70

   ✓ 3. Article 73

   ✗ 4. Article 78

Q.116 Who was the first Registrar General and Census Commissioner of India after independence?

Ans ✗ 1. Ashok Mitra

   ✓ 2. MWM Yeatts

   ✗ 3. RB Chari

   ✗ 4. Vijay S Verma

Q.117 Which of the following is NOT considered as technical agrarian reforms?

Ans ✗ 1. Use of insecticides and pesticides

   ✓ 2. Abolition of intermediaries

   ✗ 3. Mechanised means of cultivation

   ✗ 4. Scientific farm management practices

Q.118 With the objective of developing a vibrant semiconductor ecosystem, in September 2024, the Union Cabinet approved the proposal of Kaynes Semicon Pvt Ltd to set up a semiconductor unit in which of the following places?

Ans ✗ 1. Khammam, Telangana

✗ 2. Muzaffarpur, Bihar

✓ 3. Sanand, Gujarat

✗ 4. Bhilai, Chhattisgarh

Q.119 When was the Sadharan Brahmo Samaj established in British India?

Ans ✗ 1. 1875

✗ 2. 1868

✗ 3. 1830

✓ 4. 1878

Q.120 In which year did India achieve a milestone in defense R&D as DRDO conducted a successful flight test of the Indigenous Technology Cruise Missile (ITCM)?

Ans ✗ 1. 2022

✗ 2. 2023

✓ 3. 2024

✗ 4. 2021

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Section : **Arithmetic**

Q.1 During sale, Raghav bought a notebook marked for ₹70 at 40% discount and a pen marked for ₹20 at 35% discount. How much (in ₹) did he save due to sale?

Ans ✗ 1. 38

✗ 2. 34

✗ 3. 32

✔ 4. 35

Q.2 Given that $40^{0.11} = x$, $40^{0.1} = y$ and $x^z = y^2$, then the value of z is close to:

Ans ✔ 1. 1.82

✗ 2. 0.09

✗ 3. 2.72

✗ 4. 1.16

Q.3 The price (per litre) of petrol increases by 75%. By what percent should its consumption be reduced such that the expenditure on it increases by 33% only?

Ans ✗ 1. 82%

✗ 2. 70%

✗ 3. 75%

✔ 4. 76%

Q.4 The selling price of 16 books is equal to the cost price of 12 books. Find the loss or gain percentage.

Ans ✗ 1. $\frac{100}{3}$ % gain

✔ 2. 25 % loss

✗ 3. $\frac{100}{3}$ % loss

✗ 4. 25 % gain

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Q.5 Which of the following fractions is the largest?

$$\frac{2}{3}, \quad \frac{9}{87}, \quad \frac{20}{21}, \quad \frac{45}{66}$$

Ans ✗ 1. $\frac{2}{3}$

✗ 2. $\frac{45}{66}$

✗ 3. $\frac{9}{87}$

✔ 4. $\frac{20}{21}$

Q.6 The list price of a washing machine is ₹41000. It is sold to a retailer after two successive discounts of 12% and 30%. The retailer wants to earn a profit of 25% on it's cost price after allowing a 50% discount (on its new list price) to the customer. At what price should he list the washing machine?

Ans ✔ 1. ₹63140

✗ 2. ₹63076

✗ 3. ₹62956

✗ 4. ₹62967

Q.7 Find the volume (in cm³) of a cylinder that circumscribes a sphere with a radius of 2.8 cm. $\left(\text{Use } \pi = \frac{22}{7} \right)$

Ans ✗ 1. 145.984

✗ 2. 140.984

✗ 3. 142.984

✔ 4. 137.984

Q.8 Find the value of $\left[(32 \div 8) \times \left\{ \frac{15}{5} + \frac{30}{5} \times (7 - 2) \right\} \right]$

Ans ✗ 1. 149

✗ 2. 143

✗ 3. 116

✔ 4. 132

Q.9 Find the value of $\left[(35 \div 5) \times \left\{ \frac{12}{6} + \frac{25}{2} \times (9 - 7) \right\} \right]$

Ans ✗ 1. 170

✔ 2. 189

✗ 3. 172

✗ 4. 174

Q.10 A sum, when invested at 20% simple interest per annum, amounts to ₹2400 after 3 years. What is the simple interest (in ₹) on the same sum at the same rate in 2 year?

Ans ✔ 1. 600

✗ 2. 1200

✗ 3. 2400

✗ 4. 300

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Q.11 The difference between the simple interest and the compound interest, compounded annually, on a certain sum of money for 2 years at 6% per annum is ₹78. Find the sum. [Give your answer to integral number without rounded off.]

Ans   ✗ 1. ₹21672

  ✗ 2. ₹21652

  ✗ 3. ₹21682

  ✓ 4. ₹21666

Q.12 The value of

$$\frac{1}{7} + \frac{2}{7} + \frac{5}{14} + \frac{4}{7} - 3 =$$

Ans   ✓ 1. $-\frac{23}{14}$

  ✗ 2. $-\frac{13}{14}$

  ✗ 3. $-\frac{32}{14}$

  ✗ 4. $-\frac{27}{14}$

Q.13 Ketan sold 171 chairs and had a gain equal to the selling price of 95 chairs. What is his profit percentage?

Ans   ✗ 1. 130%

  ✓ 2. 125%

  ✗ 3. 120%

  ✗ 4. 135%

Q.14 If a 1136 m long train crosses a pole in 71 seconds, then find the time (in seconds) taken by the train to cross a 656 m long platform.

Ans   ✗ 1. 118

  ✗ 2. 120

  ✓ 3. 112

  ✗ 4. 110

Q.15 Express the following as a vulgar fraction.

$$0.\overline{54} + 0.\overline{23}$$

Ans   ✓ 1. $\frac{771}{990}$

  ✗ 2. $\frac{771}{900}$

  ✗ 3. $\frac{771}{999}$

  ✗ 4. $\frac{771}{99}$

Q.16 Time taken (in hrs) by two trains X and Y to travel the distance from Lucknow to Chandigarh via the same route on four different days is given in the following bar graph. Study the graph carefully and answer the question given below:
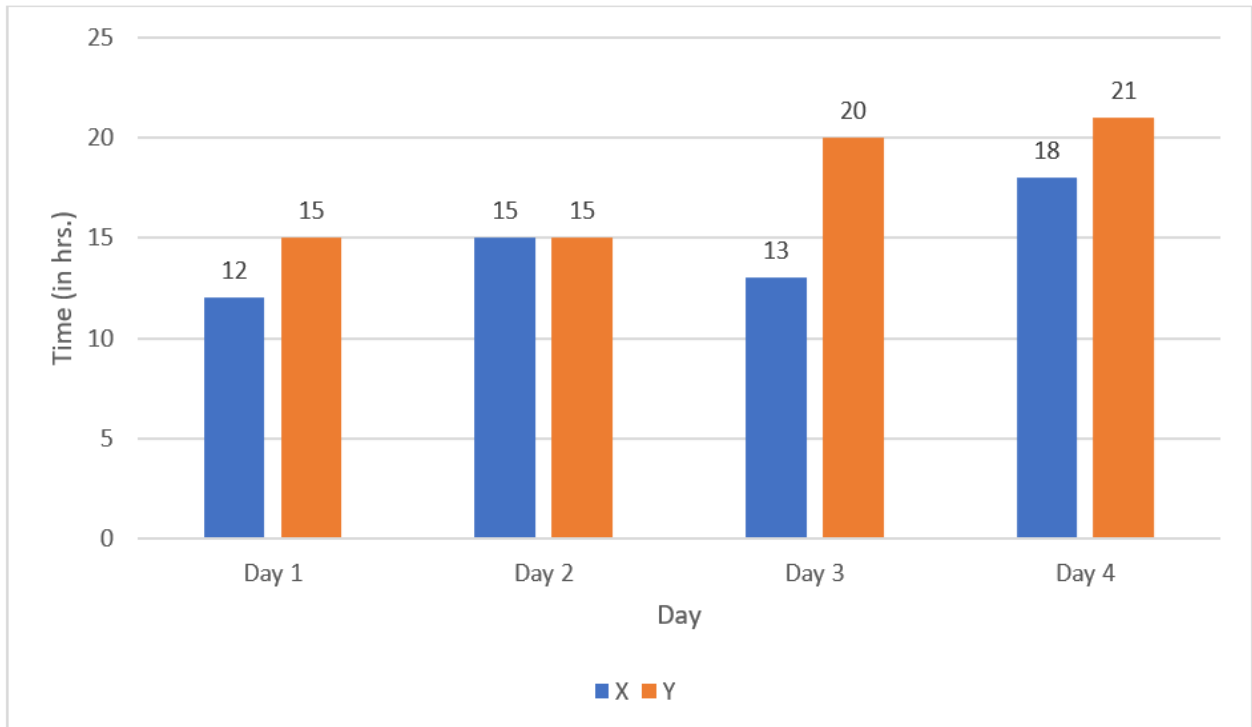
If the distance between Lucknow and Chandigarh is 754 km, then what is the difference between the average speed (in km/hr) of the trains X and Y on Day 3?

Ans ✗ 1. 18.5

✔ 2. 20.3

✗ 3. 15.8

✗ 4. 23.5

Q.17 Which of the following ratio is smallest?

Ans ✗ 1. 19 : 36

✔ 2. 11 : 60

✗ 3. 29 : 42

✗ 4. 17 : 33

Q.18 Sharad completes his journey in 8 hours. He covers half the distance at 90 km/h and the rest at 30 km/h. What is the length of the journey (in Km)?

Ans ✗ 1. 354

✗ 2. 359

✔ 3. 360

✗ 4. 356

Q.19 The smallest 1-digit number to be added to the 6-digit number 910300 so that it is completely divisible by 11 is:

Ans ✗ 1. 9

  ✔ 2. 5

  ✗ 3. 2

  ✗ 4. 6

Q.20 Lalit's average earning per month in the first three months of a year was ₹22272. In April, his earning was 75% more than the average earning in the first three months. If his average earning per month for the whole year is ₹84460, then what will be Lalit's average earning (in ₹) per month from May to December?

Ans ✔ 1. 113466

  ✗ 2. 113463

  ✗ 3. 113470

  ✗ 4. 113471

Q.21 Rahul covers 734 km in a boat in 30 hours against the stream and he takes 12 hours with the stream then find the speed of the stream?

Ans ✔ 1. 18.35 km/h

  ✗ 2. 19.07 km/h

  ✗ 3. 28.44 km/h

  ✗ 4. 11.88 km/h

Q.22 If the sum of the n observations is 160 and their average is 40, find the value of 7n + 15.

Ans ✗ 1. 47

  ✗ 2. 41

  ✔ 3. 43

  ✗ 4. 45

Q.23 If third proportional of 76 and 38 be x, then what is the value of x?

Ans ✔ 1. 19

  ✗ 2. 17

  ✗ 3. 22

  ✗ 4. 16

Q.24 The HCF and the LCM of two numbers are 57 and 114, respectively. If one of the numbers is $\frac{9}{2}$ times of the other, what is the larger number?

Ans ✗ 1. 124

✗ 2. 154

✗ 3. 186

✔ 4. 171

Q.25 If x varies inversely as y^3 - 1 and is equal to 6 when y = 3, find x when y = 8.

Ans ✗ 1. $\frac{157}{512}$

✗ 2. $\frac{156}{512}$

✔ 3. $\frac{156}{511}$

✗ 4. $\frac{158}{511}$

Q.26 The average of 7 numbers is 53. If each number is increased by 6, what will the new average be?

Ans ✗ 1. 53

✔ 2. 59

✗ 3. 7

✗ 4. 65

Q.27 A solid hemisphere of iron is melted and recast into the shape of a right circular cylinder with a diameter of 9 cm and a height of 42 cm. Find the volume of the cylinder. (Use π = 22/7)

Ans ✗ 1. 668 cm³

✗ 2. 891 cm³

✔ 3. 2673 cm³

✗ 4. 3564 cm³

Q.28 The diameter of the base of a solid cone is 24 cm and its height is 21 cm. It is cut into three parts by two cuts which are parallel to its base. The cuts are at the height of 7 cm and 14 cm from the base, respectively. Find the curved surface area (in cm²) of the top part. (use π = 3.14)

Ans ✔ 1. $12.56\sqrt{65}$

✗ 2. $15.46\sqrt{10}$

✗ 3. $14.65\sqrt{15}$

✗ 4. $12.56\sqrt{30}$

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Q.29 A number when increased by 50 %', gives 3720. The number is:

Ans ✔ 1. 2480

    ✘ 2. 4960

    ✘ 3. 1240

    ✘ 4. 7440

Q.30 Manav's average earning per month in the first three months of a year was ₹76096. In April, his earning was 75% more than the average earning in the first three months. If his average earning per month for the whole year is ₹94660, then what will be Manav's average earning (in ₹) per month from May to December?

Ans ✔ 1. 96808

    ✘ 2. 96803

    ✘ 3. 96813

    ✘ 4. 96804

Q.31 Evaluate 147^2

Ans ✘ 1. 21629

    ✘ 2. 21639

    ✔ 3. 21609

    ✘ 4. 21669

Q.32 The average price of three items of furniture is Rs 15915. If their prices are in the ratio 3:5:7, the price of the costliest item (in Rs) is

Ans ✘ 1. 9549

    ✔ 2. 22281

    ✘ 3. 15915

    ✘ 4. 7427

Q.33 Two trains of equal length are running on parallel lines in the same direction at speeds of 51 km/h and 42 km/h. The faster train passes the slower train in 16 seconds. The length of each train is:

Ans ✘ 1. 30 meters

    ✔ 2. 20 meters

    ✘ 3. 19 meters

    ✘ 4. 33 meters

Q.34 LCM and HCF of two numbers are 114 and 19 respectively. If one of the numbers is 57, then find the other number.

Ans ✔ 1. 38

    ✘ 2. 35

    ✘ 3. 36

    ✘ 4. 40

Q.35 What will be difference in population 3 years ago and 2 years ago of a town, whose current population is 180000 and which is increasing at a rate of 25% every year?

Ans ✗ 1. 22490

✗ 2. 22290

✔ 3. 23040

✗ 4. 23390

Section : General Intelligence and Reasoning

Q.36 Each vowel in the word ICTERID is changed to the letter immediately following it in the English alphabetical order and each consonant is changed to the letter immediately preceding it in the English alphabetical order. How many letters will appear exactly twice in the group of letters thus formed?

Ans ✗ 1. 2

✗ 2. 3

✔ 3. 1

✗ 4. 0

Q.37 Seven people, R, S, T, U, V, W and Y, are sitting around a circular table facing the centre of the table. W sits to the immediate left of R. U sits to the immediate left of T. S sits second to the right of T. R sits third to the right of V. Who sits second to the right of Y?

Ans ✗ 1. S

✗ 2. T

✗ 3. U

✔ 4. W

Q.38 F, G, H, I, J and Q live on six different floors of the same building. The lowermost floor in the building is numbered 1, the floor above it, number 2 and so on, till the topmost floor is numbered 6. No one lives below J. Only two people lives between J and G. Only I lives above Q. H lives on an even numbered floor. How many people live between F and Q?

Ans ✗ 1. Two

✔ 2. One

✗ 3. Three

✗ 4. Four

Q.39 Select the set in which the numbers are related in the same way as are the numbers of the following sets.

(Note: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 – Operations on 13 such as adding/subtracting/multiplying to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

(30, 49, 19)
(37, 39, 2)

Ans ✗ 1. (37, 58, 18)

✗ 2. (18, 42, 21)

✓ 3. (7, 29, 22)

✗ 4. (17, 32, 12)

Q.40 Six people, named W, X, Y, Z, T and U, each are of different ages. The age of Y is 30. The age of T is five times the age of Z. The age of W is half the age of X. The age of Z is one-fourth the age of W. The age of Y is two times the age of T. If the age of X is half the age of U, what is the age of U?

Ans ✗ 1. 45

✓ 2. 48

✗ 3. 35

✗ 4. 38

Q.41 In a certain code language, 'OWES' is coded as '5172' and 'NEWS' is coded as '4521'. What is the code for 'N' in that language?

Ans ✗ 1. 5

✓ 2. 4

✗ 3. 1

✗ 4. 2

Q.42 Which of the following letter-clusters will replace the question mark (?) in the given series to make it logically complete?

JZI 3 LVL 9 ? PNR 81 RJU 243

Ans ✗ 1. NGR 17

✗ 2. BYR 21

✗ 3. MPO 15

✓ 4. NRO 27

Q.43 S is the brother of D. D is the father of F. F is the mother of G. G is the wife of H. How is S related to H?

Ans
✔ 1. Wife's mother's father's brother

✘ 2. Wife's mother's mother's father

✘ 3. Wife's mother's father's father

✘ 4. Wife's mother's mother's brother

Q.44 If 1 is added to each odd digit and 2 is subtracted from each even digit in the number 7123546, what will be sum of the highest and lowest digits in the new number thus formed?

Ans
✘ 1. 9

✘ 2. 7

✔ 3. 8

✘ 4. 6

Q.45 Ijk ranked 89th from the bottom and 19th from the top in his class. How many students are there in his class?

Ans
✔ 1. 107

✘ 2. 99

✘ 3. 111

✘ 4. 121

Q.46 FUND is related to KSSB in a certain way based on the English alphabetical order. In the same way, PQXZ is related to UOCX. To which of the given options is ZMHV related to, following the same logic?

Ans
✘ 1. DKLS

✘ 2. GJMU

✘ 3. FLNT

✔ 4. EKMT

Q.47 Three of the following four letter-cluster pairs are alike in a certain way and thus form a group. Which is the letter-cluster pair that does NOT belong to that group?
(Note: The odd one out is not based on the number of consonants/vowels or their positions in the letter-cluster.)

Ans
✘ 1. WN - RU

✘ 2. QH - LO

✔ 3. NE - IK

✘ 4. TK - OR

Q.48 In a certain code language, 'DOES' is coded as '2649' and 'PAID' is coded as '1365'. What is the code for 'D' in the given code language?

Ans
✘ 1. 3

✘ 2. 5

✔ 3. 6

✘ 4. 2

Q.49 Refer to the following letter, number and symbol series and answer the question that follows. Counting to be done from left to right only.

(Left) D R & F 1 7 Q * 9 E D 4 W W % I 6 L 3 * € $ (Right)

If all the numbers are dropped from the series, which of the following will be fourth from the left?

Ans   ✔ 1. F

    ✗ 2. *

    ✗ 3. Q

    ✗ 4. E

Q.50 Select the pair that follows the same pattern as that followed by the two set of pairs given below. Both pairs follow the same pattern.

WKA : ULZ

SMY : QNX

Ans   ✗ 1. NTS : KVQ

    ✗ 2. DTU : BQW

    ✗ 3. XQN : VSM

    ✔ 4. OOW : MPV

Q.51 In a certain code language, 'PALS' is coded as '1245' and 'LAMS' is coded as '5123'. What is the code for 'M' in the given code language?

Ans   ✗ 1. 1

    ✔ 2. 3

    ✗ 3. 5

    ✗ 4. 2

Q.52 This question is based on the five, three-digit numbers given below.

(Left) 589 365 451 749 159 (Right)

(Example: 697 – First digit = 6, second digit = 9 and third digit = 7)

(NOTE: All operations to be done from left to right.)

If all the numbers are arranged in ascending order, the position of how many numbers will remain unchanged?

Ans   ✗ 1. Three

    ✔ 2. Two

    ✗ 3. Four

    ✗ 4. One

Q.53 In a certain code language, 'PAGE' is coded as '6123' and 'GAPS' is coded as '3761'. What is the code for 'S' in that language?

Ans   ✗ 1. 3

    ✗ 2. 1

    ✗ 3. 6

    ✔ 4. 7

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Q.54 G, H, I, J, K, L and O are sitting around a circular table facing the centre of the table. L sits third to the left of G. H sits second to the left of O. Only G sits between J and H. K is not an immediate neighbour of L. How many people sit between I and K, when counted from the right of I?

Ans ✗ 1. Four

✓ 2. Three

✗ 3. Two

✗ 4. One

Q.55 Four of the following five figures are alike in a certain way and thus form a group. Which figure DOES NOT belong to that group?
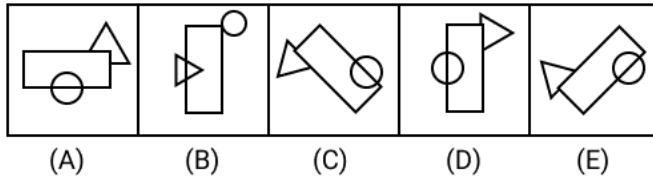
Ans ✗ 1. A

✗ 2. C

✗ 3. D

✓ 4. B

Q.56 Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.

Statements:
All oranges are apples.
All apples are kiwis.
Some apples are grapes.

Conclusions:
(I): Some kiwis aregrapes.
(II): Some oranges aregrapes.

Ans ✗ 1. Only conclusion II follows

✓ 2. Only conclusion I follows

✗ 3. Both conclusions I and II follow

✗ 4. Neither conclusion I nor II follows

Q.57 LPHK is related to NRJM in a certain way based on the English alphabetical order. In the same way, OSKN is related to QUMP. To which of the following is RVNQ related, following the same logic?

Ans ✓ 1. TXPS

✗ 2. XTPS

✗ 3. XTSP

✗ 4. TXSP

Q.58 Select the letter-cluster from among the given options that can replace the question mark (?) in the following series.

HIF KLI NOL QRO ?

Ans   ✔ 1. TUR

✘ 2. TUS

✘ 3. TVS

✘ 4. SVR

Q.59 Select the numbers from among the given options that can replace the question marks (?) in the following series.

213 216 221 228 237 ? 261 ?

Ans   ✘ 1. 247, 275

✘ 2. 246, 277

✔ 3. 248, 276

✘ 4. 259, 286

Q.60 A $ B means 'A is the sister of B',

A @ B means 'A is the daughter of B',

A * B means 'A is the father of B' and

A - B means 'A is the son of B'.

Based on the above information, which of the following means that D is the daughter's husband of M?

Ans   ✔ 1. D * R @ E $ A - M

✘ 2. D $ R * E - A @ M

✘ 3. D $ R - E * A @ M

✘ 4. D @ R - E $ A * M

Q.61 Identify the figure given in the options which when put in place of the question mark (?) will logically complete the series.
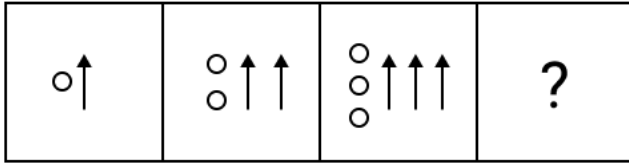
Ans 1. ✗

2. ✗

3. ✗

4. ✔

Q.62 Rayan starts from Point A and drives 13 km towards East. He then takes a left turn, drives 5 km, turns left and drives 15 km. He then takes a left turn and drives 11 km. He takes a final left turn, drives 2 km and stops at Point P. How far (shortest distance) and towards which direction should he drive in order to reach Point A again? (All turns are 90 degree turns only unless specified.)

Ans ✗ 1. 6 km to the South

✗ 2. 5 km to the North

✗ 3. 5 km to the South

✔ 4. 6 km to the North

Q.63 Select the correct mirror image of the given figure when the mirror is placed at line MN as shown.

M

B n N L P a

N

Ans ✗ 1. ɒ ꟼ ⅃ Ͷ B n

✔ 2. ɒ ꟼ ⅃ Ͷ n B

✗ 3. ɒ ꟼ ⅃ n N B
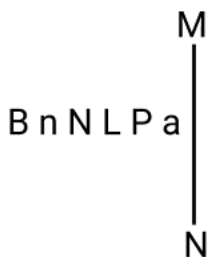
✗ 4. P a ⅃ Ͷ n B

Q.64 Gagan starts from point A and drives 13 km towards East. He then takes a right turn, drives 15 km, turns right and drives 17 km. He then takes a right turn and drives 16 km. He takes a final right turn, drives 4 km and stops at point P. How far (shortest distance) and towards which direction should he drive in order to reach point A again? (All turns are 90 degrees turns only unless specified.)

Ans
- ✗ 1. 4 km to the South
- ✗ 2. 2 km to the South
- ✓ 3. 1 km to the South
- ✗ 4. 3 km to the South

Q.65 If 2 is added to each odd digit and 1 is subtracted from each even digit in the number 2586473, which of the following digits will be third from the left in the new number thus formed?

Ans
- ✗ 1. 5
- ✗ 2. 9
- ✓ 3. 7
- ✗ 4. 1

Q.66 Refer to the following letter, number and symbol series and answer the question that follows. Counting to be done from left to right only.

(Left) G E * S D Y # 3 R 6 K & 5 4 @ C & T % 7 2 (Right)

How many such letters are there which are immediately preceded by a number and also immediately followed by a symbol?

Ans
- ✗ 1. 0
- ✗ 2. 2
- ✓ 3. 1
- ✗ 4. 3

Q.67 Based on the English alphabetical order, three of the following four letter-cluster pairs are alike in a certain way and thus form a group. Which is the letter-cluster pair that DOES NOT belong to that group?

(Note: The odd man out is not based on the number of consonants/vowels or their position in the letter-cluster.)

Ans
- ✓ 1. CE-HK
- ✗ 2. AD-FI
- ✗ 3. BE-GJ
- ✗ 4. DG-IL

Q.68 Based on the English alphabetical order, three of the following four letter-clusters are alike in a certain way and thus form a group. Which letter-cluster DOES NOT belong to that group?
(Note: The odd one out is not based on the number of consonants/vowels or their position in the letter-cluster.)

Ans   ✗ 1. ZBF

   ✗ 2. SUY

   ✗ 3. VXB

   ✓ 4. NQT

Q.69 What will come in the place of the question mark (?) in the following equation, if '×' and '+' are interchanged and '−' and '÷' are interchanged?

$44 \div 9 \times 32 - 8 + 4 = ?$

Ans   ✗ 1. 54

   ✗ 2. 52

   ✓ 3. 51

   ✗ 4. 53

Q.70 Two sets of numbers are given below. In each set of numbers, certain mathematical operation(s) on the first number results in the second number. Similarly, certain mathematical operation(s) on the second number results in the third number and so on. Which of the given options follows the same set of operations as in the given sets?
(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 − Operations on 13 such as adding / subtracting /multiplying to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

79 - 71 - 65 - 61
84 - 76 - 70 - 66

Ans   ✗ 1. 70 - 62 - 54 - 50

   ✗ 2. 64 - 56 - 40 - 36

   ✗ 3. 99 - 92 - 86 - 81

   ✓ 4. 93 - 85 - 79 - 75

Section : General Awareness

Q.71 Arrange the following rulers of the Slave dynasty in the chronological order.

Ans   ✗ 1. Bahramshah < Alauddin Masood Shah < Naseeruddin Mahmood < Ruknuddin Firozshah

   ✓ 2. Ruknuddin Firozshah < Bahramshah < Alauddin Masood Shah < Naseeruddin Mahmood

   ✗ 3. Naseeruddin Mahmood < Bahramshah < Ruknuddin Firozshah < Alauddin Masood Shah

   ✗ 4. Bahramshah < Ruknuddin Firozshah < Naseeruddin Mahmood < Alauddin Masood Shah

Q.72 According to the Indian Meteorological Department (IMD), which season can be observed from October to December?

Ans
  ✗ 1. Pre-monsoon

  ✗ 2. Winter

  ✓ 3. Post-monsoon

  ✗ 4. Monsoon

Q.73 Senior IAS officer Deepak Kumar was appointed by the Election Commission as the new Home Secretary of which of the following states of India in March 2024?

Ans
  ✓ 1. Uttar Pradesh

  ✗ 2. Karnataka

  ✗ 3. West Bengal

  ✗ 4. Odisha

Q.74 The Street Vendor's AtmaNirbhar Nidhi (PM SVANidhi) Scheme for micro-credit completed how many years in June 2023?

Ans
  ✗ 1. 4 years

  ✗ 2. 2 years

  ✓ 3. 3 years

  ✗ 4. 1 year

Q.75 Which of the following is NOT a symptom of Salmonella infection?

Ans
  ✗ 1. Diarrhoea

  ✗ 2. Fever

  ✗ 3. Abdominal cramps

  ✓ 4. Vomiting

Q.76 Who has become the first woman sniper of the Border Security Force (BSF) in 2024?

Ans
  ✗ 1. Poonam Yadav

  ✗ 2. Sunita Sharma

  ✓ 3. Suman Kumari

  ✗ 4. Anjali Singh

Q.77 In which month is the Hornbill festival celebrated in India?

Ans
  ✓ 1. December

  ✗ 2. March

  ✗ 3. July

  ✗ 4. May

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Q.78 Who among the following is known for his contribution to the foundation of the Jaipur-Atrauli gharana, particularly in the realm of tabla playing?

Ans ✔ 1. Ustad Alladiya Khan

✘ 2. Pandit Anindo Chatterjee

✘ 3. Pandit Kishan Maharaj

✘ 4. Ustad Zakir Hussain

Q.79 Which of the following is the main measure used to evaluate a nation's economic health?

Ans ✘ 1. National Income

✔ 2. Gross Domestic Product (GDP)

✘ 3. Gross National Product (GNP)

✘ 4. Net Factor Income from Abroad (NFI)

Q.80 Who among the following was the first-ever Supreme Court Justice against whom a motion for removal was initiated?

Ans ✘ 1. Hon'ble Justice Shanti Sarup Dewan

✘ 2. Hon'ble Mr. Justice M.M. Punchhi

✘ 3. Hon'ble Mr. Justice Jitendra Vir Gupta

✔ 4. Hon'ble Mr. Justice Ramaswamy

Q.81 Asif Ali Zardari, who took oath as Pakistan's 14ʰ President in March 2024, replaced who among the following?

Ans ✘ 1. Shehbaz Sharif

✘ 2. Shahid Khaqan Abbasi

✔ 3. Arif Alvi

✘ 4. Mamnoon Hussain

Q.82 What is the correct sequence of the following Biosphere Reserves of India from east to west?

1. Sunderban 2. Pachmarhi 3. Achanakmar-Amarkantak 4. Similipal

Ans ✘ 1. 1, 3, 4, 2

✘ 2. 2, 3, 4, 1

✔ 3. 1, 4, 3, 2

✘ 4. 4, 2, 3, 1

Q.83 Which of the following was the correct ascending order of administration units of the Rashtrakuta dynasty?

Ans ✘ 1. Vishaya > Bhukti > Rashtra

✘ 2. Gana > Bhukti > Desha

✘ 3. Bhukti > Rashtra > Vishaya

✔ 4. Bhukti > Vishaya > Rashtra

Q.84 Who among the following muslim leaders first propounded the theory of 'Two nations'?

Ans ✓ 1. Mohammad Iqbal

✗ 2. Liaqat Ali

✗ 3. Rahmat Ali Chaudhary

✗ 4. Muhammad Ali Jinnah

Q.85 Which of the following NABARD subsidiaries sets an objective to provide credit facilities to individuals and other legal entities?

Ans ✗ 1. NABVENTURE

✗ 2. NABCONS

✗ 3. NABFOUNDATION

✓ 4. NABSAMRUDDHI

Q.86 In which of the following types of forests are the spotted deer found?

Ans ✗ 1. Thorn Forests

✗ 2. Mangrove Forests

✓ 3. Montane Forests

✗ 4. Deciduous Forests

Q.87 The idea of Justice (Social, Economic and Political) in the Preamble of Indian Constitution has been taken from the Constitution of _____.

Ans ✗ 1. America

✗ 2. France

✗ 3. Japan

✓ 4. Russia

Q.88 The laws of inheritance form the foundation of classical genetics. Who among the following first described the laws of inheritance?

Ans ✗ 1. Dmitri Mendeleev

✗ 2. Alfred Russel Wallace

✗ 3. Charles Darwin

✓ 4. Gregor Mendel

Q.89 In February 2024, the Cabinet approved the amendment in the Foreign Direct Investment (FDI) policy on Space Sector. According to it, in which of the following sub-sectors 100% FDI through automatic route has been allowed?

Ans ✗ 1. Satellite products

✗ 2. Satellite manufacturing

✓ 3. Manufacturing components and subsystems for satellites

✗ 4. Launch vehicle and systems / sub-systems

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Q.90 _____ is a kind of quantitative and qualitative process of change which cannot be measured.

Ans　✔ 1. Evolution

✘ 2. Progress

✘ 3. Development

✘ 4. Growth

Q.91 Which of the following is a feature of the Fiscal Responsibility and Budget Management Act, 2003 (FRBMA)?

Ans　✘ 1. The reduction in fiscal deficit by 0.5 per cent of GDP each year

✔ 2. The reduction in fiscal deficit by 0.3 per cent of GDP each year

✘ 3. The reduction in fiscal deficit by 0.2 per cent of GDP each year

✘ 4. The reduction in fiscal deficit by 0.4 per cent of GDP each year

Q.92 Which of the following species of catfish was first discovered in the state of Arunachal Pradesh in March 2023?

Ans　✘ 1. Amblyceps laticeps

✔ 2. Exostoma dhritiae

✘ 3. Exostoma sentiyonoae

✘ 4. Glyptothorax punyabratai

Q.93 Which of the following statements is/are true about Iltutmish?

1 He was married to the daughter of Qutb-ud-din Aibak.

2 He was the Governor of Lahore.

3 He nominated his daughter as his successor.

Ans　✘ 1. All 1, 2 and 3

✘ 2. Only 1 and 2

✘ 3. Only 2 and 3

✔ 4. Only 1 and 3

Q.94 According to the Census of India 2011, which of the following groups of states recorded a population of more than 30 crore?

Ans　✘ 1. Maharashtra and West Bengal

✘ 2. Bihar and Rajasthan

✘ 3. Uttar Pradesh and Madhya Pradesh

✔ 4. Uttar Pradesh and Maharashtra

Q.95 Indian chess player Raunak Sadhwani, who finished joint second in the Masters group of the 30th Abu Dhabi International Chess Festival that concluded in August 2024, belongs to which city?

Ans　✘ 1. Pune

✘ 2. Mumbai

✔ 3. Nagpur

✘ 4. Nashik

Q.96 Who among the following was the founder of Indian Space Research Organisation (ISRO)?

Ans ✗ 1. Satish Dhawan

✗ 2. Dr APJ Abdul Kalam

✗ 3. Dr Homi J Bhabha

✔ 4. Vikram Sarabhai

Q.97 Who among the following wrote the book, 'The White Tiger'?

Ans ✗ 1. Arundhati Roy

✔ 2. Aravind Adiga

✗ 3. Chitra Divakaruni

✗ 4. Rajiv Malhotra

Q.98 In September 2024, the World Health Organization (WHO) officially recognised which of the following as the first country in the world to eliminate leprosy?

Ans ✗ 1. Sudan

✗ 2. Nepal

✗ 3. Syria

✔ 4. Jordan

Q.99 Bhirrana, a Neolithic site, is situated in _____ state.

Ans ✗ 1. Rajasthan

✗ 2. Madhya Pradesh

✗ 3. Gujarat

✔ 4. Haryana

Q.100 Which of the following states is NOT connected to the Golden Quadrilateral highway network?

Ans ✔ 1. Kerala

✗ 2. Andhra Pradesh

✗ 3. Tamil Nadu

✗ 4. West Bengal

Q.101 Which of the following Indian musicologists is recognised for his role in organising and codifying Hindustani classical music, thereby laying the groundwork for modern education of India's musical heritage?

Ans ✗ 1. Pandit Vishnu Digambar Paluskar

✔ 2. Pandit Vishnu Narayan Bhatkhande

✗ 3. Baba Allauddin Khan

✗ 4. Ustad Abdul Karim Khan

Q.102 Who among the following was the leader of the Wahabi movement in India?

Ans ✗ 1. Sir Syed Ahmed Khan

✔ 2. Syed Ahmed Barelvi

✗ 3. Jamal Ahmad Khan

✗ 4. Shah Waliullah

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Q.103 'Ichthyophis beddomei', a worm-like amphibian that can swim, belongs to which genus?

Ans ✔ 1. Limbless amphibia

✘ 2. Long hind limbs amphibia

✘ 3. Short limbs amphibia

✘ 4. Reduced forelimbs amphibia

Q.104 Which of the following articles deals with language to be used in the Parliament?

Ans ✘ 1. 119

✔ 2. 120

✘ 3. 118

✘ 4. 121

Q.105 Which of the following is the most appropriate definition of Newton's second law?

Ans ✘ 1. The force needed to extend or compress a spring by some distance is proportional to that distance.

✘ 2. Whenever one object exerts a force on a second object, the second object exerts an equal and opposite force on the first.

✘ 3. An object at rest remains at rest, and an object in motion remains in motion at constant speed and in a straight line unless acted on by an unbalanced force.

✔ 4. The acceleration of an object depends on the mass of the object and the amount of force applied.

Q.106 Which of the following Articles of the Indian Constitution states that all minorities, whether based on religion or language, shall have the right to establish and administer educational institutions of their choice?

Ans ✔ 1. Article 30

✘ 2. Article 29

✘ 3. Article 31

✘ 4. Article 28

Q.107 Manu Bhaker and Sarabjot Singh, the first Indian shooting pair to win an Olympic medal in shooting at Paris 2024, defeated players of which country to win the bronze medal?

Ans ✘ 1. Japan

✘ 2. Singapore

✔ 3. South Korea

✘ 4. Malaysia

Q.108 Who among the following has assumed the charge of Chief of Army Training Command, Shimla in 2022?

Ans ✘ 1. Lt Gen J S Nain

✔ 2. Lt Gen SS Mahal

✘ 3. Lt Gen C P Mohanty

✘ 4. Lt Gen Raj Shukla

Q.109 Which of the following Articles of the Indian Constitution is related to Comptroller and Auditor General (CAG)?

Ans
✗ 1. Article 135

✗ 2. Article 130

✓ 3. Article 148

✗ 4. Article 140

Q.110 Which of the following statements is true about the Animal Birth Control Rules, 2023, notified by the Central Government in April 2023?

Ans
✗ 1. State governments are allowed to formulate guidelines on how to deal with human and stray dog conflicts.

✓ 2. Local bodies are allowed to conduct the Animal Birth Control Programme but only through the Animal Welfare Board of India recognised organisations.

✗ 3. State governments can choose any government veterinary hospital to implement the Animal Birth Control programme.

✗ 4. Only the state governments are allowed to carry Animal Birth Control.

Q.111 If you were to advise a state in India to start sesame cultivation as a rabi crop, the state will be from which of the following regions of India?

Ans
✗ 1. Western India

✗ 2. Northern India

✗ 3. Eastern India

✓ 4. Southern India

Q.112 Which of the following schemes aims to create self-employment opportunities in rural areas?

Ans
✓ 1. Rural Employment Generation Programme

✗ 2. Swarnajayanti Gram Swarozgar Yojana

✗ 3. Swarna Jayanti Shahri Rojgar Yojana

✗ 4. Prime Minister's Rozgar Yojana

Q.113 According to the Census 2011, which of the following union territories of India has the least population density?

Ans
✗ 1. Puducherry

✗ 2. Chandigarh

✗ 3. Lakshadweep

✓ 4. Andaman and Nicobar islands

Q.114 Which of the following data sources is used for estimating extreme poverty in India?

Ans
✗ 1. National Income data

✗ 2. Agricultural production data

✗ 3. National Census data

✓ 4. Household Consumer Expenditure Surveys

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Q.115 Images those are formed on a screen is termed as:

Ans ✗ 1. real in some cases

✗ 2. virtual

✗ 3. imaginary

✔ 4. real

Q.116 Which of the following programmes aims to improve the food and nutritional status of people experiencing poverty?

Ans ✗ 1. Skill Loan Scheme

✗ 2. Craftsmen Training Scheme

✔ 3. Public Distribution System

✗ 4. Pradhan Mantri Kaushal Kendras

Q.117 An ant bite is acidic in nature. Which acid is present in ant bites?

Ans ✗ 1. Lactic acid

✗ 2. Oxalic acid

✔ 3. Formic acid

✗ 4. Acetic acid

Q.118 Who among the following is the ex-officio Chairman of the Rajya Sabha?

Ans ✗ 1. President of India

✗ 2. Senior Member of Rajya Sabha

✗ 3. Leader of Opposition

✔ 4. Vice-President of India

Q.119 The provision of 'Impeachment of President' in the Indian Constitution is borrowed from the Constitution of _____.

Ans ✗ 1. Britain

✗ 2. French

✗ 3. Canada

✔ 4. United States of America

Q.120 In January 2024, Sarbananda Sonowal launched 'Harit Nauka' guidelines and 'River Cruise Tourism Roadmap, 2047' at the Inland Waterways Development Council (IWDC) in _____.

Ans ✔ 1. Kolkata

✗ 2. Vishakhapatnam

✗ 3. Bhubaneshwar

✗ 4. Thiruvananthapuram

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Section : Arithmetic

Q.1 Evaluate: 33 ÷ 11 × 3 - 3 × 4

Ans ✗ 1. -4

✗ 2. -1

✔ 3. -3

✗ 4. 0

Q.2 The value of

$$\frac{4}{6} + \frac{1}{6} + \frac{4}{12} + \frac{3}{6} - 1 =$$

Ans ✗ 1. $\frac{7}{12}$

✗ 2. $\frac{15}{12}$

✗ 3. $-\frac{1}{12}$

✔ 4. $\frac{8}{12}$

Q.3 Find the value of $\left[(14 \div 7) \times \left\{ \frac{84}{6} + \frac{14}{2} \times (5 - 3) \right\} \right]$

Ans ✗ 1. 42

✗ 2. 54

✔ 3. 56

✗ 4. 46

Q.4 20% of a number is more than 20% of 530 by 180. The number is:

Ans ✗ 1. 1480

✗ 2. 1280

✔ 3. 1430

✗ 4. 1530

Q.5 Vishal covers 285 km in a boat in 45 hours against the stream and he takes 18 hours with the stream then find the speed of the stream?

Ans ✗ 1. 3.35 km/h

✗ 2. 7.51 km/h

✗ 3. 9.17 km/h

✔ 4. 4.75 km/h

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Q.6 Suraj covers 424 km in a boat in 48 hours against the stream and he takes 30 hours with the stream then find the speed of the stream?

Ans ✗ 1. 10.24 km/h

✗ 2. 9.49 km/h

✓ 3. 2.65 km/h

✗ 4. 8.74 km/h

Q.7 Pranjal's average earning per month in the first three months of a year was ₹19008. In April, his earning was 50% more than the average earning in the first three months. If his average earning per month for the whole year is ₹99708, then what will be Pranjal's average earning (in ₹) per month from May to December?

Ans ✗ 1. 138871

✗ 2. 138869

✗ 3. 138867

✓ 4. 138870

Q.8 Neha and Kajal invest in a business in the ratio 4 : 9. If total profit is Rs. 5590, then what is difference between the profit (in Rs.) of Neha and Kajal?

Ans ✗ 1. 2000

✗ 2. 2300

✓ 3. 2150

✗ 4. 2200

Q.9 The average of eight numbers is 20. The average of five of these numbers is 16. The average of the remaining three numbers is

Ans ✗ 1. 25.67

✗ 2. 28.67

✗ 3. 27.67

✓ 4. 26.67

Q.10 Find the value of $\left[(81 \div 3) \times \left\{ \dfrac{40}{8} + \dfrac{34}{2} \times (9 - 7) \right\} \right]$

Ans ✗ 1. 1071

✓ 2. 1053

✗ 3. 1037

✗ 4. 1067

Q.11 Study the given table and answer the question that follows.

The table shows loan disbursed (in ₹ crores) by four banks in different years.

Banks	Years 1992	1993	1994	1995	1996
P	20	25	47	31	72
Q	28	35	20	43	39
R	31	32	24	18	15
S	33	18	29	34	44
Total	112	110	120	126	170

What was the percentage increase of disbursement of loans of all banks together from 1994 to 1995?

Ans ✗ 1. 7%

✓ 2. 5%

✗ 3. 10%

✗ 4. 8%

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Q.12 If at same rate of interest, in 2 years, the simple interest is ₹60 and compound interest is ₹66, then what is the principal (in ₹)?

Ans ✗ 1. 154

✗ 2. 145

✔ 3. 150

✗ 4. 143

Q.13 A hollow spherical shell is made of a metal of density 6 g/cm³. Its internal and external radius are 2 cm and 4 cm, respectively. What is the weight (in kg) of the shell ?

$\left(take\ \pi = \dfrac{22}{7} \right)$

Ans ✗ 1. 3.28

✔ 2. 1.408

✗ 3. 1.592

✗ 4. 2.73

Q.14 A person covers certain distance in 7 hours at a speed of 4 km/h and some more distance in 2 hours at a speed of 2 km/h. Find his average speed for the entire distance covered.

Ans ✗ 1. $4\dfrac{5}{9}$

✔ 2. $3\dfrac{5}{9}$

✗ 3. $5\dfrac{5}{9}$

✗ 4. $2\dfrac{5}{9}$

Q.15 By selling an article at $\dfrac{3}{8}$ of its actual selling price, Sharad incurs a loss of 19%. If he sells it at 60% of its actual selling price, then the profit percentage is:

Ans ✗ 1. 31.9%

✔ 2. 29.6%

✗ 3. 30.6%

✗ 4. 32.3%

Q.16 The average weight of 6 boxes is 14 kg and the weight of the first box is one-fifth of the remaining boxes. What will be the weight of the first box?

Ans ✔ 1. 14 kg

✗ 2. 12 kg

✗ 3. 16 kg

✗ 4. 10 kg

Q.17 Express the following into vulgar fraction.

$0.1\overline{4} + 0.2\overline{3} + 2$

Ans ✗ 1. $2\dfrac{11}{9}$

✗ 2. $2\dfrac{19}{30}$

✔ 3. $2\dfrac{34}{90}$

✗ 4. $2\dfrac{17}{9}$

Q.18 The area of a square plot is 15876 m² . The length of each side of the plot (in m) is:

Ans
❌ 1. 128

✅ 2. 126

❌ 3. 118

❌ 4. 106

Q.19 Priya and Ayushi together invested ₹45600 in a business. At the end of the year, out of a total profit of ₹7500, Priya's share was ₹1800. What was the investment of Ayushi?

Ans
❌ 1. ₹34445

❌ 2. ₹35535

✅ 3. ₹34656

❌ 4. ₹32910

Q.20 Find the simple interest (in ₹) on ₹2000 at 6.25% per annum rate of interest for the period from 14 February 2023 to 28 April 2023

Ans
❌ 1. 23

✅ 2. 25

❌ 3. 26

❌ 4. 24

Q.21 A man walks to a viewpoint and returns to the starting point by his car maintaining constant speed and thus takes a total time of 3 hours 30 minutes. He would have gained 3 hours by driving both ways. How long would it have taken for him to walk both ways with same walking speed?

Ans
✅ 1. 6 hours 15 minutes

❌ 2. 5 hours 15 minutes

❌ 3. 6 hours 45 minutes

❌ 4. 7 hours 30 minutes

Q.22 During sale, Raghav bought a notebook marked for ₹50 at 78% discount and a pen marked for ₹100 at 8% discount. How much (in ₹) did he save due to sale?

Ans
❌ 1. 50

❌ 2. 44

✅ 3. 47

❌ 4. 45

Q.23 The average of eight numbers is 20. The average of five of these numbers is 12. The average of the remaining three numbers is

Ans
❌ 1. 34.33

❌ 2. 32.33

✅ 3. 33.33

❌ 4. 35.33

Q.24 Atul sold 173 chairs and had a gain equal to the selling price of 73 chairs. What is his profit percentage?

Ans
❌ 1. 83%

❌ 2. 68%

❌ 3. 78%

✅ 4. 73%

Q.25 The ratio of the heights of a right circular cone and a right circular cylinder is 4 : 3 and the ratio of the radii of their bases is 7 : 3. If the volume of the cylinder is 810 cm^3, then the volume (in cm^3) of the cone is:

Ans ✗ 1. 1966

✗ 2. 1955

✗ 3. 1961

✔ 4. 1960

Q.26 Which of the following fractions is the largest?

$$\frac{6}{9}, \frac{7}{84}, \frac{48}{79}, \frac{48}{55}$$

Ans ✗ 1. $\frac{48}{79}$

✔ 2. $\frac{48}{55}$

✗ 3. $\frac{7}{84}$

✗ 4. $\frac{6}{9}$

Q.27 The smallest 1-digit number to be added to the 6-digit number 348510 so that it is completely divisible by 11 is:

Ans ✗ 1. 7

✗ 2. 9

✔ 3. 3

✗ 4. 5

Q.28 Find the surface area of a sphere whose diameter is equal to 18 cm.

Ans ✗ 1. 69 cm^2

✗ 2. 886 cm^2

✔ 3. 324 cm^2

✗ 4. 792 cm^2

Q.29 ■■■■ ■■■■■■■ ■■■■ ■■■■■■ ■■■■■■■ ■■■■■■■ ■■■ d% ■■■■ ■■■■■■ ■■■ ■■■■■■ ■■■■ ■■■■■■ ■■■■■■■ (₹-■) ■■■■ ■■■■ ■■■■ ■■■■ ₹630-■ ■■■■■■ ■■■■■■। ■■■ ■■■■■■■■ ■■■■■■■ ■■■■■ ₹700 ■■■, ■■■■■ d-■■ ■■■ ■■?

Ans ✗ 1. 9

✔ 2. 5

✗ 3. 8

✗ 4. 7

Q.30 Given that $2^{0.83}$ = x, $2^{0.09}$= y and x^z = y^5 , then the value of z is close to:

Ans ✗ 1. 3.18

✔ 2. 0.54

✗ 3. 0.87

✗ 4. 0.93

Q.31 How many kilogrammes of rice costing ₹70/kg must be mixed with 63 kg of rice costing ₹90/kg so that there may be a gain of 15% by selling the mixture at ₹96.60/kg?

Ans ✔ 1. 27

✘ 2. 72

✘ 3. 36

✘ 4. 63

Q.32 Sunaina and Reema invest in a business in the ratio 3 : 8. If total profit is Rs. 3927, then what is difference between the profit (in Rs.) of Sunaina and Reema?

Ans ✘ 1. 1885

✘ 2. 1935

✔ 3. 1785

✘ 4. 1635

Q.33 The population of a village was 130000. It increased by 10% in the first year and increased by 30% in the second year. Its population after two years is _____.

Ans ✘ 1. 169000

✘ 2. 143000

✘ 3. 182000

✔ 4. 185900

Q.34 A bank offers 8.8% compound interest per annum calculated on a half-yearly basis. A customer deposits ₹1924 each on 1 January and 1 July of a year. At the end of the year, the amount he would have gained by way of interest is _____. [Give your answer correct to 2 decimal places.]

Ans ✔ 1. ₹257.69

✘ 2. ₹249.4

✘ 3. ₹247.69

✘ 4. ₹267.87

Q.35 Express the following as a vulgar fraction.

$0.0\overline{13} + 0.\overline{32}$

Ans ✘ 1. $\dfrac{111}{990}$

✘ 2. $\dfrac{111}{999}$

✘ 3. $\dfrac{111}{333}$

✔ 4. $\dfrac{111}{330}$

Section : General Intelligence and Reasoning

Q.36 ██████ ████, ██████ ███ ██████ ████████ █████ ███ ██████ ████████ █████ ███। ████████ █████ ████ ██████ ████ ████ ███।

(███) 4 @ 6 K & 2 R G C & T % 7 D Y # 3 5 E * S (███)

█████ ██████ █████ ███ ██████ ███ ███ ████ ████ █ ███ ███ ████ ██████ ███?

Ans ✔ 1. 3

✘ 2. 5

✘ 3. 4

✘ 4. 2

Q.37 **Based on the English alphabetical order, three of the following four letter-clusters are alike in a certain way and thus form a group. Which letter-cluster DOES NOT belong to that group?**

(Note: The odd man out is not based on the number of consonants/vowels or their position in the letter-cluster.)

Ans ✘ 1. JNT

✔ 2. NRY

✘ 3. FJP

✘ 4. BFL

Q.38 Select the triad that follows the same pattern as the one followed by the two triads given below. Both triads follow the same pattern.

LH-NJ-PS

NJ-PL-RU

Ans ✔ 1. PL-RN-TW

✘ 2. PL-RN-TX

✘ 3. OL-RM-TX

✘ 4. OL-RN-TX

Q.39 Rudra starts from Point A and drives 13 km towards west. He then takes a left turn, drives 12 km, turns left and drives 15 km. He then takes a left turn and drives 14 km. He takes a final left turn, drives 2 km and stops at Point P. How far (shortest distance) and towards which direction should he drive in order to reach Point A again? (All turns are 90 degrees turns only unless specified)

Ans ✔ 1. 2 km to the south

✘ 2. 3 km to the south

✘ 3. 4 km to the south

✘ 4. 1 km to the south

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Q.40 29 is related to 118 following a certain logic. Following the same logic, 10 is related to 42. To which of the following is 13 related, following the same logic?

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 – Operations on 13 such as adding / subtracting /multiplying to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)
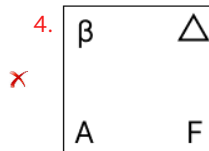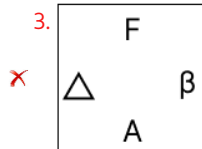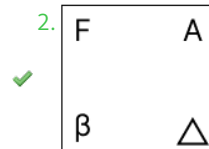
Ans ✗ 1. 51

✔ 2. 54

✗ 3. 52

✗ 4. 56

Q.41 Identify the figure given in the options which when put in place of '?' will logically complete the series.

Ans

1.   ✗

2.   ✔

3.   ✗

4.   ✗
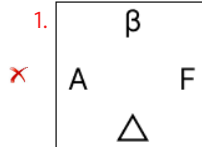
Q.42 In a certain code language,

A + B means 'A is the daughter of B',

A − B means 'A is the brother of B',

A × B means 'A is the wife of B',

and A % B means 'A is the father of B'.

How is S related to H if 'S + D × F − G % H'?

Ans ✗ 1. Father's brother's wife

✔ 2. Father's brother's daughter

✗ 3. Mother's brother's wife

✗ 4. Mother's brother's daughter

Q.43 Three of the following four letter-cluster pairs are alike in a certain way and thus form a group. Which is the letter-cluster pair that does NOT belong to that group?

(Note: The odd one out is not based on the number of consonants/vowels or their positions in the letter-cluster.)

Ans ✗ 1. OF - IM

 ✗ 2. RI - LP

 ✔ 3. XO - RU

 ✗ 4. UL - OS

Q.44 Select the pair that follows the same pattern as that followed by the two pairs given below. Both pairs follow the same pattern.

QRU : NTS

KVQ : HXO

Ans ✗ 1. WKA : ULZ

 ✗ 2. KAQ : HCT

 ✗ 3. SMY : QNX

 ✔ 4. EZM : BBK

Q.45 Select the correct mirror image of the given figure when the mirror is placed at line MN as shown.

M

E e W s d b

N

Ans ✔ 1. d b ƨ W ɘ Ǝ

 ✗ 2. q p ƨ W ɘ Ǝ

 ✗ 3. d b ƨ Ǝ e W
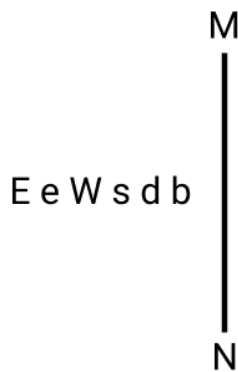
 ✗ 4. d b ƨ W Ǝ e

Q.46 Six people, named W, X, Y, Z, T and U, each are of different ages. The age of W is 40. The age of Y is one-fourth times the age of T. The age of Z is four times the age of U. The age of T is five times the age of Z. The age of W is two times the age of Y. If The age of U is one-third times the age of X, what is the age of X?

Ans ✔ 1. 12

 ✗ 2. 15

 ✗ 3. 24

 ✗ 4. 18

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Q.47 A, B, C, D, E, F and G sit around a circular table facing centre. F sits to the immediate left of G. E sits to the immediate left of C. C sits second to the left of A. B sits third to the left of G. How many people sit between F and E when counted from the left of E?

Ans ✗ 1. 3

✔ 2. 1

✗ 3. 4

✗ 4. 2

Q.48 Seven boxes, A, B, C, D, E, F and G, are kept one over the other but not necessarily in the same order. Only three boxes are kept below D. Only two boxes are kept between D and G. Only C is kept immediately above B. A is kept at some place below F and at some place above E. How many boxes are kept above B?

Ans ✗ 1. 3

✗ 2. 4

✗ 3. 2

✔ 4. 1

Q.49 All 91 people are standing in a row facing north. Fi is 12th from the right end while Yu is 86th from the left end. How many people are there between Fi and Yu?

Ans ✗ 1. 6

✗ 2. 3

✔ 3. 5

✗ 4. 4

Q.50 In the following triad, each group of letters is related to the subsequent one following a certain logic. Select from the given options, the one that follows the same logic.

PLOT - LTOP - TOLP

BEAN - ENAB - NAEB

Ans ✗ 1. QUIT - UQIT - TUIQ

✗ 2. TOWN - OTWN - NOWT

✗ 3. WEST - WSET - TSEW

✔ 4. CRAP - RPAC - PARC

Q.51 Three of the following four letter-cluster pairs are alike in a certain way and thus form a group. Which is the letter-cluster pair that does NOT belong to that group?
(Note: The odd one out is not based on the number of consonants/vowels or their positions in the letter-cluster.)

Ans ✗ 1. PS - WZ

✔ 2. MR - UN

✗ 3. IL - PS

✗ 4. CF - JM

Q.52 In a certain code language, 'SPAM' is coded as '4592' and 'TAPS' is coded as '5412'. What is the code for 'T' in that language?

Ans   ✗ 1. 5

      ✗ 2. 4

      ✔ 3. 1

      ✗ 4. 2

Q.53 I, J, K, L, P, Q and R are sitting around a square table facing the centre of the table. Only three people sit between P and J. Q sits to the immediate left of J. No one sits to the right of R. Only two people sit between R and Q. K sits to the immediate right of I. How many people sit between L and K?

Ans   ✔ 1. Two

      ✗ 2. Three

      ✗ 3. One

      ✗ 4. Four

Q.54 What should come in place of the question mark (?) in the given series?

38 37 40 39 42 ?

Ans   ✗ 1. 44

      ✗ 2. 40

      ✔ 3. 41

      ✗ 4. 43

Q.55 If 1 is added to each odd digit and 2 is subtracted from each even digit in the number 4635748, what will be the sum of the digits which are second from the left and second from the right in the new number thus formed?

Ans   ✗ 1. 4

      ✗ 2. 8

      ✗ 3. 2

      ✔ 4. 6

Q.56 This question is based on the five, three-digit numbers given below.
(Left) 682 745 524 617 539 (Right)
(Example- 697 – First digit = 6, second digit = 9 and third digit = 7)
NOTE - All operations to be done from left to right.
What will be the resultant if the third digit of the second highest number is added to the second digit of the lowest number?

Ans   ✗ 1. 2

      ✗ 2. 5

      ✔ 3. 4

      ✗ 4. 3

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Q.57 Select the term from among the given options that can replace the question mark (?) in the following series.

FNT -1 HPP -3 ? LTH -27 NVD -81

Ans ✗ 1. LKV -7

✗ 2. GFT -5

✔ 3. JRL -9

✗ 4. KHF -8

Q.58 The 3 figures given below are alike in a certain way as they share certain feature(s). Select the option that shares the same features as the given figures.

Ans 1.

✗

2.

✗

3.

✗

4.

✔

Q.59 ■■■■■■■■■ ■■■■, ■■■■■■ ■■■■■■■■ ■■■■ ■■■ ■■■■■■■■■ ■■■■■■■ ■■■■■ ■■■।

(■■■) 3 Ω 9 $ 7 6 @ 5 1 * # % & 8 2 + 4 £ (■■■)

■■■ ■■■■■■■■ ■■■■ ■■■■■ ■■■■■ ■■■ ■■■■■ ■■■, ■■■ ■■■■■ ■■■■■■ ■■■■■ ■■■■ ■■■■■ ■■■■■ ■■■■ ?

Ans ✔ 1. 5

✗ 2. 8

✗ 3. 6

✗ 4. 7

Q.60 All 47 people are standing in a row facing north. Seema is 22ⁿᵈ from the right end while Bini is 31st from the left end. How many people are there between Seema and Bini?

Ans
✗ 1. 2
✗ 2. 3
✗ 3. 1
✓ 4. 4

Q.61 12 is related to 192 following a certain logic. Following the same logic, 17 is related to 272. To which of the following is 24 related, following the same logic?

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 – Operations on 13 such as adding / subtracting /multiplying to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

Ans
✗ 1. 404
✗ 2. 374
✓ 3. 384
✗ 4. 394

Q.62 In a certain code language, 'HUNT' is coded as '9876' and 'USER' is coded as '4361'. What is the code for 'U' in that language?

Ans
✗ 1. 8
✓ 2. 6
✗ 3. 4
✗ 4. 1

Q.63 In a certain code language, 'TAIL' is coded as '2463' and 'INKS' is coded as '9351'. What is the code for 'I' in the given code language?

Ans
✗ 1. 5
✓ 2. 3
✗ 3. 6
✗ 4. 9

Q.64 G, F ██ █████ I F, K ██ ████ I K, H ██ █████ I H, E ██ ██████ I G █████ E ██ █████ █████████ ?

Ans
✓ 1. █████ █████
✗ 2. █████ ██
✗ 3. █████ █████
✗ 4. █████ ████

Q.65 What should come in place of the question mark (?) in the given series based on the English alphabetical order?

RTW PRU NPS LNQ ?

Ans
✓ 1. JLO
✗ 2. JKP
✗ 3. JLP
✗ 4. JKO

Q.66 If 'A' stands for '÷', 'B' stands for '×', 'C' stands for '+' and 'D' stands for '−', what will come in place of the question mark '?' in the following equation?

(64 A 4) C 28 D 20 C (46 A 23) B 7 C 19 = ?

Ans
✗ 1. 76

✗ 2. 41

✗ 3. 69

✔ 4. 57

Q.67 CLAUSE ██████ ███████ ████ ██████ ████████████████ ███ ███████ █████ ████████ ███ ███ █████ ██████ ████ █████ █████████ ████████████████ ██████ ███ | ██████ ████ █████████ ████ ███ █████ ████ ██████ ██████ ████ █████ ██████ ████ ?

Ans
✗ 1. V

✗ 2. T

✔ 3. M

✗ 4. F

Q.68 Each of the digits in the number 6384921 is arranged in ascending order from left to right. What will be the sum of the digits which are second from the left and second from the right in the new number thus formed?

Ans
✔ 1. 10

✗ 2. 9

✗ 3. 7

✗ 4. 8

Q.69 Robert starts from Point A and drives 6 km towards South. He then takes a left turn, drives 8 km, turns left and drives 2 km. He then takes a left turn and drives 5 km. He takes a final right turn, drives 4 km and stops at Point B. How far (shortest distance) and towards which direction should he drive in order to reach Point A again? (All turns are 90 degree turns only unless specified.)

Ans
✗ 1. 3 km towards East

✗ 2. 5 km towards West

✗ 3. 5 km towards South

✔ 4. 3 km towards West

Q.70 Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.

Statements:
All wafers are candies.
All candies are biscuits.
Some wafers are juices.

Conclusions:
(I): Some candies are juices.
(II): Some biscuits are juices.

Ans
✔ 1. Both conclusions I and II follow

✗ 2. Only conclusion II follows

✗ 3. Only conclusion I follows

✗ 4. Neither conclusion I nor II follows

Section : **General Awareness**

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Q.71 Which of the following articles is concerned with the Comptroller Auditor General of India?

Ans ✗ 1. Article 135

✓ 2. Article 148

✗ 3. Article 154

✗ 4. Article 142

Q.72 Which city won the Smart Cities India Award 2020?

Ans ✗ 1. Pune

✗ 2. Varanasi

✗ 3. Bengaluru

✓ 4. Surat

Q.73 Who was named captain of the India's squad for T20I cricket series against Bangladesh played in October 2024?

Ans ✗ 1. Hardik Pandya

✗ 2. Rinku Singh

✓ 3. Suryakumar Yadav

✗ 4. Sanju Samson

Q.74 Where was the 11th edition of the SAMPRITI military exercise conducted in 2023?

Ans ✓ 1. Umroi, India

✗ 2. Dhaka, Bangladesh

✗ 3. Kolkata, India

✗ 4. Chittagong, Bangladesh

Q.75 The Kochi-Lakshadweep Submarine Optical Fibre Cable Project launched by Prime Minister Narendra Modi in January, 2024, is being funded by which of the following entities?

Ans ✗ 1. Kerala Government

✗ 2. Asian Development Bank

✗ 3. World Bank

✓ 4. Universal Services Obligation Fund

Q.76 Which of the following was a new introduction to the Advanced Transportation Management system upgraded in October 2023?

Ans ✓ 1. Video Incident Detection and Enforcement System (VIDES)

✗ 2. Vehicle Speed Detection System (VSDS)

✗ 3. Radio Frequency Identification (RFID)

✗ 4. Traffic Monitoring Camera System (TMCS)

Q.77 Which of the following eminent persons called the Indian Constitution as 'Lawyer's Paradise and difficult to understand by common Citizen'?

Ans ✗ 1. Morris Jones

✗ 2. KC Wheare

✓ 3. Ivor Jenning

✗ 4. Granville Austin

Q.78 '▮▮▮▮▮ ▮▮▮▮ ▮▮▮▮▮' ▮▮▮▮▮▮ ▮▮▮▮▮▮▮▮▮▮ ▮▮▮▮▮▮▮▮▮ ▮▮▮▮▮▮▮▮▮▮ ▮▮▮▮▮, ▮▮▮▮▮▮▮▮▮ ▮▮ :

Ans ✗ 1. ▮▮▮ ▮▮▮▮▮▮▮ ▮▮▮▮▮▮▮▮ ▮▮▮▮▮▮ ▮▮▮▮▮ ▮▮▮ ▮▮▮▮ ▮▮▮▮ ▮▮▮▮ ▮▮▮▮▮▮ ▮▮▮▮▮▮ ▮▮▮

✓ 2. ▮▮▮▮▮▮ ▮▮▮ ▮▮▮▮▮▮ ▮▮▮

✗ 3. ▮▮▮▮▮▮▮ ▮▮▮▮▮▮ ▮▮▮▮▮▮▮▮.▮▮ ▮▮▮▮▮▮▮▮▮ ▮▮▮▮▮▮ ▮ ▮▮▮▮▮▮▮▮▮▮

✗ 4. ▮▮▮▮▮▮ ▮▮▮▮▮▮▮▮▮▮ ▮▮▮▮▮▮▮▮▮ ▮▮▮▮▮▮ ▮▮▮ ▮▮▮▮ ▮▮▮▮ ▮▮▮▮▮▮▮

Q.79 Who among the following is known as the first sovereign ruler of the Delhi sultanate?

Ans ✗ 1. Qutb al-Dın Aybak

✓ 2. Shams al-Din Iltutmish

✗ 3. Jalal al-Dın Fıruz Khaljı

✗ 4. Ghaznavid Sultan Mahmud

Q.80 1 erg is equal to _____.

Ans ✗ 1. 10^7 J

✓ 2. 10^{-7} J

✗ 3. 4.186 J

✗ 4. 10^{-5} J

Q.81 Who among the following is the chairperson of the Parliamentary Affairs' Committee in India?

Ans ✓ 1. The Union Defence Minister

✗ 2. The Union Finance Minister

✗ 3. The Prime Minister

✗ 4. The Union Home Minister

Q.82 In which year was the Purvanchal Expressway of Uttar Pradesh, connecting Lucknow and Ghazipur, inaugurated by the Prime Minister of India?

Ans ✗ 1. 2023

✗ 2. 2020

✓ 3. 2021

✗ 4. 2018

Q.83 During the second quarter of the 14[h] century, three independent kingdoms were established in South India. Which of the following was NOT part of it?

Ans ✗ 1. Vijaynagara

✓ 2. Daulatabad

✗ 3. Ma'bar

✗ 4. Bahmani

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Q.84 Silver medalist at the Paris Paralympic games 2024, Thulasimathi Murugesan is associated with which of the following games?

Ans
- ✅ 1. Badminton
- ❌ 2. Athletics
- ❌ 3. Shooting
- ❌ 4. Archery

Q.85 What is the correct sequence of the following biosphere reserves of India from north to south?

1. Dibru-Saikhowa 2. Manas 3. Nokrek

Ans
- ❌ 1. 2, 3, 1
- ❌ 2. 1, 3, 2
- ✅ 3. 1, 2, 3
- ❌ 4. 3, 1, 2

Q.86 Which of the following countries has discontinued its 'Golden Visa' programme from 1st January 2024, introduced in 2013, offering residence permits to affluent foreign investors?

Ans
- ❌ 1. Hungary
- ❌ 2. Denmark
- ✅ 3. The Netherlands
- ❌ 4. Austria

Q.87 The term 'Ghatam' refers to which percussion instrument commonly used in Carnatic music performances?

Ans
- ❌ 1. Drum
- ❌ 2. Cymbals
- ❌ 3. Tambourine
- ✅ 4. Pot

Q.88 In the context of cellular biology, which of the following statements best describes pseudopodia?

Ans
- ❌ 1. Rigid structures that provide mechanical support to the cell
- ❌ 2. Permanent structures on the surface of cells used for locomotion and respiration
- ❌ 3. Specialised organelles that produce energy for the cell
- ✅ 4. Temporary projections of the cell membrane used for movement and feeding

Q.89 In the International System of Units (SI), which physical factor has the value $6.62607015 \times 10^{34}$ joule-hertz^{-1}?

Ans
- ❌ 1. Avogadro constant
- ❌ 2. Von Klitzing constant
- ❌ 3. Stefan–Boltzmann constant
- ✅ 4. Planck's constant

Q.90 Who among the following wrote the book, 'The Inheritance of Loss'?

Ans
- ✅ 1. Kiran Desai
- ❌ 2. Rajiv Malhotra
- ❌ 3. Alka Joshi
- ❌ 4. Amitav Ghosh

Q.91 Which of the following reform organisations promoted studies of ancient Indian religions, philosophies and doctrines under the guidance of Annie Besant?

Ans ✗ 1. Arya Samaj

✓ 2. Theosophical Society

✗ 3. Ramakrishna Mission

✗ 4. Brahmo Samaj

Q.92 In July 2024, Robert Jerard Ravi became the new Chairman and Managing Director (CMD) of which of the following telecom companies?

Ans ✗ 1. Mahanagar Telephone Nigam Limited (MTNL)

✗ 2. Reliance Jio Infocomm

✓ 3. Bharat Sanchar Nigam Limited (BSNL)

✗ 4. Vodafone Idea Limited

Q.93 How does the Reserve Bank of India (RBI) utilise the repo rate to control inflation?

Ans ✗ 1. Maintaining a constant repo rate regardless of inflation levels

✗ 2. Increasing the repo rate to directly lower the prices of goods and services

✓ 3. Increasing the repo rate and making borrowing more expensive for banks, thereby reducing the money supply in the economy

✗ 4. Decreasing the repo rate to increase the money supply, encouraging spending and investment

Q.94 Which of the following is the socio-religious festival of the Adi community in Arunachal Pradesh?

Ans ✗ 1. Rajgir dance festival

✗ 2. Bohag Bihu

✗ 3. Chhath Puja

✓ 4. Solung festival

Q.95 Which of the following Acts is related to the establishment of High Courts in India?

Ans ✓ 1. Indian High Courts Act, 1861

✗ 2. Constitution of India Act, 1945

✗ 3. Indian Councils Act, 1861

✗ 4. Government of India Act, 1861

Q.96 Who was the chairman of the eighth five-year plan of India?

Ans ✗ 1. Atal Bihari Vajpayee

✗ 2. Manmohan Singh

✓ 3. PV Narasimha Rao

✗ 4. Narendra Modi

Q.97 What is the minimum length of residency required by the Indian Constitution for an individual of Indian descent to be eligible for registration as an Indian citizen?

Ans ✗ 1. 10 years

✗ 2. 5 years

✓ 3. 7 years

✗ 4. 2 years

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Q.98 In which year was the Mission Poshan 2.0 scheme launched in India?

Ans ✗ 1. 2024

✗ 2. 2023

✗ 3. 2020

✓ 4. 2021

Q.99 From 1999 to 2000, how much percentage of working people in India were employed in the secondary sector?

Ans ✓ 1. 15.8%

✗ 2. 16.8%

✗ 3. 23.8%

✗ 4. 12.8%

Q.100 Kupagal, a Neolithic site, is located in_____.

Ans ✗ 1. Telangana

✗ 2. Kerala

✗ 3. Andhra Pradesh

✓ 4. Karnataka

Q.101 What is the scientific name of 'Eri Silkworm', one of the most exploited, domesticated and commercial non-mulberry silkworms?

Ans ✗ 1. Antheraea mylitta

✓ 2. Philosamia ricinii

✗ 3. Morus alba

✗ 4. Bombyx mori

Q.102 The Abhinav Bharat Mandir (Young India Society) was founded by _____ and his brother, as a secret organisation during the Indian War of Independence.

Ans ✗ 1. Mahadev Govind Ranade

✓ 2. Vinayak Damodar Savarkar

✗ 3. Sardar Vallabhbhai Patel

✗ 4. Damodar Hari Chapekar

Q.103 Which of the following states in India has initiated the TANWA project for women in Agriculture?

Ans ✗ 1. Goa

✗ 2. Assam

✓ 3. Tamilnadu

✗ 4. West Bengal

Q.104 Who among the following national leaders founded the Forward Block in the year 1939?

Ans ✗ 1. Jawahar Lal Nehru

✗ 2. Abul Kalam Azad

✗ 3. Pandit Govind Ballabh Pant

✓ 4. Subhash Chandra Bose

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Q.105 Which country held the G20 presidency from 1 December 2023 to 30 November 2024?

Ans   ✗ 1. South Africa

✗ 2. Indonesia

✗ 3. India

✓ 4. Brazil

Q.106 Which Article of the Indian Constitution is related to constitution of High Courts in the Union Territories of India?

Ans   ✓ 1. Article 241

✗ 2. Article 239

✗ 3. Article 252

✗ 4. Article 239B

Q.107 Which of the following is a keystone species in the savanna ecosystem?

Ans   ✓ 1. Elephant

✗ 2. Zebra

✗ 3. Lion

✗ 4. Giraffe

Q.108 How do sustainable agriculture practices contribute to rural development?

Ans   ✗ 1. Sustainable practices have minimal impact on rural development and focus only on environmental conservation

✗ 2. They restrict agricultural productivity by limiting the use of modern technologies

✓ 3. Through enhancing soil health, water conservation and biodiversity, leading to better long-term agricultural productivity and rural livelihoods

✗ 4. By increasing dependence on chemical fertilisers and pesticides

Q.109 Which of the following instruments is NOT commonly used in Hindustani classical music?

Ans   ✗ 1. Veena

✗ 2. Sitar

✓ 3. Ghatam

✗ 4. Sarod

Q.110 What is the SI unit of luminous intensity?

Ans   ✗ 1. joules

✗ 2. watt

✓ 3. candela

✗ 4. kelvin

Q.111 Under the Citizenship Act, 1955, for how many years does a person of Indian origin need to reside in India to become an Indian Citizen?

Ans   ✗ 1. 5 years

✓ 2. 7 years

✗ 3. 10 years

✗ 4. 3 years

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Q.112 ██████████ ██████ █████████ ████████ ████ ████ █████████?

Ans ✗ 1. ███ █████ ███

✗ 2. ████ ██████

✔ 3. ██████ ███ ████ █████

✗ 4. ████ ███ ██ ████████(█████████) ████ ███ ████

Q.113 India's first artificial satellite, _____, was launched in space by Indian Space Research Organisation.

Ans ✗ 1. Resourcesat

✗ 2. Bhaskara

✗ 3. ScatSat

✔ 4. Aryabhatta

Q.114 Identify the economic infrastructure that supports financial activities such as stock trading, a variety of investments and deposits, funding initiatives, and loan remittances, both in India and globally.

Ans ✔ 1. Banking Institutions

✗ 2. Brokerage firms

✗ 3. Insurance sectors

✗ 4. Asset Management Companies(AMC)

Q.115 The 4th edition of Bilateral Exercise between Indian Navy and Bangladesh Navy, BONGOSAGAR-23 was held in the month of _____ in 2023.

Ans ✗ 1. May

✗ 2. January

✔ 3. November

✗ 4. August

Q.116 █████████ █████ 2024 █████ █████ ████ █████████ █████████ (█████████ █ ███████) █████████ ███ (Oilfields (Regulation and Development) Amendment Bill), 2024 ███ _____ ████ █████████████ █████████████ █████ ████ ████ █

Ans ✗ 1. ██████

✗ 2. █████████ █████████

✗ 3. ████

✔ 4. ██████████ ███

Q.117 Who among the following Sultans of Delhi started a new department for the development of agriculture called Diwan-i Kohi?

Ans ✔ 1. Muhammad-bin-Tughlaq

✗ 2. Shamsuddin Iltutmish

✗ 3. Alauddin Khalji

✗ 4. Ghiyasuddin Balban

Q.118 Name the blue-fluorescent dye that can be used to stain living or fixed cells.

Ans ✗ 1. Fuchsin

✗ 2. BODIPY

✓ 3. DAPI

✗ 4. Phalloidin

Q.119 Serchhip, which recorded highest literacy in Census 2011, is a district in which of the following states?

Ans ✓ 1. Mizoram

✗ 2. Rajasthan

✗ 3. Andhra Pradesh

✗ 4. Kerala

Q.120 Which age group is targeted to be covered in the 'New India Literacy Programme' launched by the Government of India?

Ans ✗ 1. 7 years and above

✗ 2. 15 years and below

✗ 3. 25 years and below

✓ 4. 15 years and above

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Section : **Arithmetic**

Q.1 Express the following into vulgar fraction.

$$0.6\overline{41} + 0.\overline{23}$$

Ans
- ✗ 1. $\dfrac{173}{999}$
- ✓ 2. $\dfrac{173}{198}$
- ✗ 3. $\dfrac{173}{99}$
- ✗ 4. $\dfrac{173}{199}$

Q.2 A train runs at a speed of 148 kmph to cover a distance of 296 km and then at a speed of 98 kmph to cover a distance of 294 km. Find the average speed of the train for the entire distance.

Ans
- ✓ 1. 118 kmph
- ✗ 2. 114 kmph
- ✗ 3. 131 kmph
- ✗ 4. 132 kmph

Q.3 The area of a square plot is 841 m^2. The length of each side of the plot (in m) is:

Ans
- ✓ 1. 29
- ✗ 2. 41
- ✗ 3. 39
- ✗ 4. 31

Q.4 How much water should be mixed in 40 litres of milk worth ₹6.90 per litre, so that the value of the mixture is ₹4.60 per litre?

Ans
- ✗ 1. 15 litres
- ✓ 2. 20 litres
- ✗ 3. 25 litres
- ✗ 4. 10 litres

Q.5 A shopkeeper marks an article at ₹x and offers a discount of 60% on it. He sells it for ₹444 after charging VAT of 25% on the discounted price. What is the value of ₹ x?

Ans
- ✓ 1. ₹888
- ✗ 2. ₹700
- ✗ 3. ₹1100
- ✗ 4. ₹900

Q.6 If third proportional of 36 and 18 be x, then what is the value of x?

Ans ✗ 1. 11

✔ 2. 9

✗ 3. 7

✗ 4. 10

Q.7 The value of

$$\frac{5}{5} + \frac{5}{5} + \frac{4}{10} + \frac{1}{5} - 2 =$$

Ans ✗ 1. $-\frac{1}{10}$

✔ 2. $\frac{6}{10}$

✗ 3. $\frac{1}{10}$

✗ 4. $\frac{3}{10}$

Q.8 During sale, Raghav bought a notebook marked for ₹50 at 40% discount and a pen marked for ₹32 at 50% discount. How much (in ₹) did he save due to sale?

Ans ✗ 1. 38

✗ 2. 33

✔ 3. 36

✗ 4. 39

Q.9 Three partners invested in a business in the ratio 3:9:8. They invested their capitals for 10 months, 1 months and 4 months, respectively. What was the ratio of their profits?

Ans ✔ 1. 30:9:32

✗ 2. 32:9:32

✗ 3. 28:9:32

✗ 4. 31:9:32

Q.10 A train runs at a speed of 137 kmph to cover a distance of 411 km and then at a speed of 109 kmph to cover a distance of 327 km. Find the average speed of the train for the entire distance.

Ans ✗ 1. 87 kmph

✔ 2. 123 kmph

✗ 3. 125 kmph

✗ 4. 115 kmph

Q.11 If at same rate of interest, in 2 years, the simple interest is ₹60 and compound interest is ₹64, then what is the principal (in ₹)?

Ans ✗ 1. 218

✔ 2. 225

✗ 3. 220

✗ 4. 229

Q.12 A bank offers 6.6% compound interest per annum calculated on a half-yearly basis. A customer deposits ₹4823 each on 1 January and 1 July of a year. At the end of the year, the amount he would have gained by way of interest is _____. [Give your answer correct to 2 decimal places.]

Ans ✗ 1. ₹474.94

✗ 2. ₹479.07

✗ 3. ₹462.72

✔ 4. ₹482.72

Q.13 A man walks to a viewpoint and returns to the starting point by his car maintaining constant speed and thus takes a total time of 9 hours 30 minutes. He would have gained 7 hours by driving both ways. How long would it have taken for him to walk both ways with same walking speed?

Ans ✗ 1. 16 hours 45 minutes

✔ 2. 16 hours 15 minutes

✗ 3. 17 hours 30 minutes

✗ 4. 15 hours 15 minutes

Q.14 Four years ago, the average age of P, Q and R was 25 years. If three years ago, the average age of P and Q was 20 years, find the present age of R.

Ans ✗ 1. 34 years

✔ 2. 41 years

✗ 3. 35 years

✗ 4. 38 years

Q.15 Lalit's average earning per month in the first three months of a year was ₹38360. In April, his earning was 50% more than the average earning in the first three months. If his average earning per month for the whole year is ₹55065, then what will be Lalit's average earning (in ₹) per month from May to December?

Ans ✗ 1. 61015

✗ 2. 61025

✔ 3. 61020

✗ 4. 61018

Q.16 Find the circumference (in m) of the largest circle that can be inscribed in a rectangle whose dimensions are given as 56 m and 154 m.

$$take\ \pi = \frac{22}{7}$$

Ans ✔ 1. 176

✗ 2. 173

✗ 3. 174

✗ 4. 171

Q.17 LCM and HCF of two numbers are 192 and 32 respectively. If one of the numbers is 64, then find the other number.

Ans ✔ 1. 96

✗ 2. 97

✗ 3. 93

✗ 4. 99

Q.18 A sum, when invested at 20% simple interest per annum, amounts to ₹2160 after 4 years. What is the simple interest (in ₹) on the same sum at the same rate in 2 year?

Ans ✗ 1. 960

✗ 2. 240

✓ 3. 480

✗ 4. 1920

Q.19 By selling an article at $\frac{2}{5}$ of its actual selling price, Ramesh incurs a loss of 16%. If he sells it at 73% of its actual selling price, then the profit percentage is:

Ans ✗ 1. 52.1%

✗ 2. 54.7%

✗ 3. 52.7%

✓ 4. 53.3%

Q.20 The areas of three adjacent faces of a solid cuboid are 127 cm², 32 cm² and 254 cm². What is the volume (in cm³) of the cuboid?

Ans ✗ 1. 1163

✗ 2. 963

✗ 3. 941

✓ 4. 1016

Q.21 A number when increased by 50 %', gives 3870. The number is:

Ans ✗ 1. 5160

✓ 2. 2580

✗ 3. 1290

✗ 4. 7740

Q.22 LCM and HCF of two numbers are 150 and 5 respectively. If one of the numbers is 15, then find the other number.

Ans ✓ 1. 50

✗ 2. 49

✗ 3. 48

✗ 4. 52

Q.23 A train runs at a speed of 81 kmph to cover a distance of 405 km and then at a speed of 88 kmph to cover a distance of 176 km. Find the average speed of the train for the entire distance.

Ans ✗ 1. 133 kmph

✗ 2. 53 kmph

✓ 3. 83 kmph

✗ 4. 129 kmph

Q.24 If 25% of a number is added to 72, then the result is the same number. 60% of the same number is:

Ans ✗ 1. 77.6

✗ 2. 87.6

✗ 3. 27.6

✓ 4. 57.6

Q.25 If x = 2 + $\sqrt{9}$ and y = 2 − $\sqrt{9}$ then the value of $x^2 + y^2$ is:

Ans ✓ 1. 26

✗ 2. 22

✗ 3. 15

✗ 4. 9

Q.26 Find the circumference (in m) of the largest circle that can be inscribed in a rectangle whose dimensions are given as 250 m and 126 m.

$take\ \pi = \dfrac{22}{7}$

Ans ✗ 1. 393

✓ 2. 396

✗ 3. 391

✗ 4. 395

Q.27 David sold 172 chairs and had a gain equal to the selling price of 86 chairs. What is his profit percentage?

Ans ✗ 1. 95%

✗ 2. 110%

✓ 3. 100%

✗ 4. 105%

Q.28 Evaluate 85 ^{2}

Ans ✓ 1. 7225

✗ 2. 7195

✗ 3. 7235

✗ 4. 7245

Q.29 The smallest natural number which is divisible by 15, 63, 21 and 70 is:

Ans ✓ 1. 630

✗ 2. 531

✗ 3. 632

✗ 4. 587

Q.30 The given pie chart shows the breakup of the cost of construction of an office.
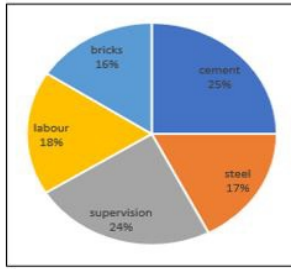
If the total cost of construction is ₹9,00,000, by how much does the amount spent on cement exceed the amount spent on labour?

Ans ✗ 1. ₹55,000

✔ 2. ₹63,000

✗ 3. ₹45,000

✗ 4. ₹54,000

Q.31 The average of 7 numbers is 45. If each number is decreased by 5, what will the new average be?

Ans ✗ 1. 45

✔ 2. 40

✗ 3. 7

✗ 4. 35

Q.32 The average price of three items of furniture is Rs 16020. If their prices are in the ratio 3:5:7, the price of the costliest item (in Rs) is

Ans ✗ 1. 5340

✔ 2. 22428

✗ 3. 3204

✗ 4. 7476

Q.33 Find the least of value of 'x' so that the number 9052743x2 is divisible by 8.

Ans ✗ 1. 3

✗ 2. 8

✗ 3. 7

✔ 4. 9

Q.34 Latika and Himani together invested ₹47800 in a business. At the end of the year, out of a total profit of ₹7500, Latika's share was ₹2700. What was the investment of Himani?

Ans ✗ 1. ₹31305

✗ 2. ₹28855

✗ 3. ₹32405

✔ 4. ₹30592

Q.35 Express the following into a vulgar fraction.

$0.4\overline{2} + 0.\overline{42}$

Ans ✗ 1. $\dfrac{834}{999}$

✔ 2. $\dfrac{838}{990}$

✗ 3. $\dfrac{834}{990}$

✗ 4. $\dfrac{838}{999}$

Section : General Intelligence and Reasoning

Q.36 Identify the figure given in the options which when put in place of the question mark (?) will logically complete the series.

Ans
1. ✗

2. ✔

3. ✗

4. ✗
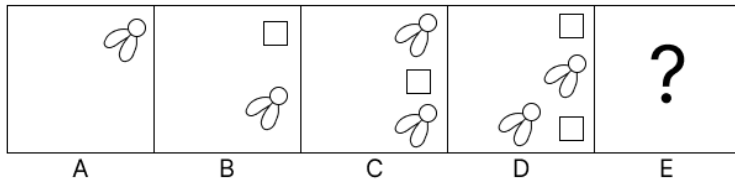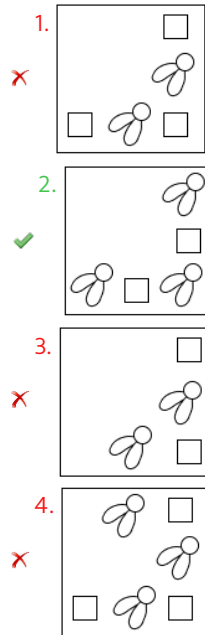
Q.37 If 'I' stands for '+' , 'J' stands for '×', 'K' stands for '÷', and 'L' stands for '−' what will come in place of the question mark '?' in the following equation?

(16 I 9 L 13) I 7 J 5 L (22 K 2) I 4 J 9 = ?

Ans ✗ 1. 84

✗ 2. 60

✗ 3. 96

✔ 4. 72

Q.38 In a certain code language, 'GIFT' is coded as '5173' and 'FLOW' is coded as '4612'. What is the code for 'F' in the given code language?

Ans ✗ 1. 4

✔ 2. 1

✗ 3. 2

✗ 4. 7

Q.39 G, H, I, J, K and L, each scored different marks. I scored the maximum marks. Only G scored less than K. L scored more than H but less than J.

How many people among the six, scored more than H but less than J?

Ans ✗ 1. Two

✗ 2. Three

✗ 3. Four

✔ 4. One

Q.40 Refer to the following number, symbol series and answer the question that follows. Counting to be done from left to right only.

(Left) 7 $ % 4 & 8 2 @ 5 & 3 Ω 9 * 1 £ # 6 (Right)

If all the symbols are dropped from the series, which of the following will be fifth from the right?

Ans   ✗ 1. 2

   ✗ 2. 9

   ✗ 3. 3

   ✔ 4. 5

Q.41 All 29 people are standing in a row facing north. KLM is 8th from the right end, while PRQ is 12th from the left end. How many people are there between KLM and PRQ?

Ans   ✔ 1. 9

   ✗ 2. 8

   ✗ 3. 7

   ✗ 4. 10

Q.42 Two sets of numbers are given below. In each set of numbers, certain mathematical operation(s) on the first number results in the second number. Similarly, certain mathematical operation(s) on the second number results in the third number and so on. Which of the given options follows the same set of operations as in the given sets?
(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 – Operations on 13 such as adding / subtracting /multiplying to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

8 - 10 - 14 - 7; 6 - 8 - 12 - 6

Ans   ✗ 1. 13 - 15 - 30 - 60

   ✔ 2. 4 - 6 - 10 - 5

   ✗ 3. 3 - 5 - 9 - 18

   ✗ 4. 2 - 4 - 8 - 16

Q.43 Which of the following letter-clusters will replace the question mark (?) in the given series to make it logically complete?

IXE 2 KSH −9 MNK −20 OIN −31 ?

Ans   ✗ 1. YWZ −65

   ✔ 2. QDQ −42

   ✗ 3. WQZ −66

   ✗ 4. DQP −44

Q.44 Refer to the following number and symbol series and answer the question that follows. Counting to be done from left to right only.

(Left) 6 @ 8 $ 7 & 3 Ω 9 2 & % 4 # 1 * £ 5 (Right)

How many such symbols are there each of which is immediately preceded by a number and also immediately followed by another number?

Ans ✗ 1. 4

✗ 2. 6

✔ 3. 5

✗ 4. 7

Q.45 Select the number from among the given options that can replace the question mark (?) in the following series.

143 170 234 359 ?

Ans ✗ 1. 535

✔ 2. 575

✗ 3. 573

✗ 4. 555

Q.46 Five figures have been given, out of which four are alike in some manner and one is different. Select the one that is different.

(A)   (B)   (C)   (D)   (E)
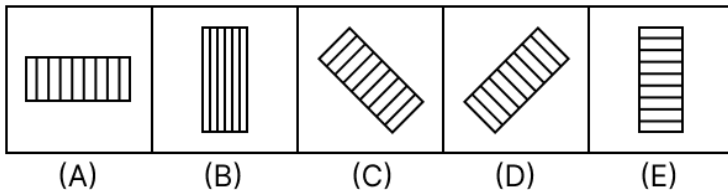
Ans ✔ 1. B

✗ 2. D

✗ 3. E

✗ 4. C

Q.47 Based on the English alphabetical order, three of the following four letter-clusters are alike in a certain way and thus form a group. Which letter-cluster DOES NOT belong to that group?
(Note: The odd one out is not based on the number of consonants/vowels or their position in the letter-cluster.)

Ans ✗ 1. BCA

✔ 2. LNK

✗ 3. KLJ

✗ 4. ZAY

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Q.48 Three of the following four letter-cluster pairs are alike in a certain way and thus form a group. Which is the letter-cluster pair that does NOT belong to that group?

(Note: The odd one out is not based on the number of consonants/vowels or their positions in the letter-cluster.)

Ans
- ✗ 1. FJ - MD
- ✗ 2. IM - PG
- ✗ 3. LP - SJ
- ✔ 4. CG - JB

Q.49 A, B, C, D, E, F and G are sitting around a circular table facing the centre. Only two people sit between A and D, when counted from the right of A. Only two people sit between D and G. Only three people sit between A and C. F sits to the immediate left of E. How many people sit between C and G, when counted from the left of G?

Ans
- ✔ 1. 1
- ✗ 2. 3
- ✗ 3. 4
- ✗ 4. 2

Q.50 Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.

M

A R E D P L

N

Ans
- ✗ 1. ꓘ Ǝ ꓷ ꓑ ꓶ
- ✔ 2. A R E D P L (mirrored)
- ✗ 3. E D P L A R (mirrored)
- ✗ 4. A R E D P L (mirrored)
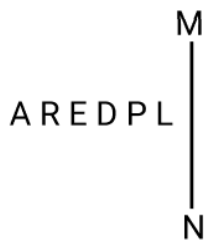
Q.51 In the following triads, each group of letters is related to the subsequent one following a certain logic. Select from the given options, the one that follows the same logic.

DESK - EDSK - KEDS

ROAD - ORAD - DORA

Ans
- ✔ 1. PRAY - RPAY - YRPA
- ✗ 2. JAMS - AJMS - SAMJ
- ✗ 3. FROG - FORG - GORF
- ✗ 4. VANS - AVNS - ANSV

Q.52 Based on the English alphabetical order, three of the following four letter-cluster pairs are alike in a certain way and thus form a group. Which pair DOES NOT belong to that group?

(Note: The odd one out is not based on the number of consonants/vowels or their position in the letter-cluster pair.)

Ans ✗ 1. RM : PK

✗ 2. JE : HC

✔ 3. PJ : MH

✗ 4. MH : KF

Q.53 What will come in place of the question mark (?) in the following equation, if '+' and '−' are interchanged and '×' and '÷' are interchanged?

24 ÷ 4 + 10 × 5 − 3 = ?

Ans ✗ 1. 91

✗ 2. 95

✔ 3. 97

✗ 4. 93

Q.54 Select the set in which the numbers are related in the same way as are the numbers of the following sets.

(Note: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 – Operations on 13 such as adding/subtracting/multiplying to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

(10, 130, 13)
(11, 187, 17)

Ans ✗ 1. (3, 51, 16)

✗ 2. (49, 542, 11)

✔ 3. (36, 792, 22)

✗ 4. (39, 627, 16)

Q.55 Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.
Statements:
All shirts are pants.
All pants are trousers.
Some pants are coats.
Conclusions:
(I): Some trousers are coats.
(II): Some shirts are coats.

Ans ✗ 1. Neither conclusion (I) nor (II) follows.

✗ 2. Only conclusion (II) follows.

✗ 3. Both conclusions (I) and (II) follow.

✔ 4. Only conclusion (I) follows.

Q.56 This question is based on the given words.

WIG RUT HEN JOY

If in each of the words, each letter is changed to the next letter in the English alphabetical order, how many words thus formed will have no vowel?

Ans ✘ 1. Three

✘ 2. One

✘ 3. Zero

✔ 4. Two

Q.57 In a certain code language, 'stay always positive' is coded as 'tk mp bk' and 'always on time' is coded as 'lj tk mo'. How is 'always' coded in the given language?

Ans ✘ 1. mo

✔ 2. tk

✘ 3. lj

✘ 4. bk

Q.58 Select the term from among the given options that can replace the question mark (?) in the following series.

LDY 1 JGX -3 HJW 9 FMV -27 ?

Ans ✘ 1. UOD 81

✘ 2. PVD 80

✘ 3. EDP 80

✔ 4. DPU 81

Q.59 Seven boxes, C, D, E, F, G, H and P, are kept one over the other but not necessarily in the same order. Only one box is kept below C. Only three boxes are kept between C and H. F is kept at one of the positions below C. Only P is kept between H and G. E is kept at one of the positions above H. How many boxes are kept between D and F?

Ans ✔ 1. One

✘ 2. Two

✘ 3. Three

✘ 4. Four

Q.60 If 1 is added to each odd digit and 2 is subtracted from each even digit in the number 3617845, which of the following digits will be second from the left in the new number thus formed?

Ans ✔ 1. 4

✘ 2. 2

✘ 3. 6

✘ 4. 8

Q.61 In a certain code language, 'ROMS' is coded as '2613' and 'WORM' is coded as '8326'. What is the code for 'W' in the given code language?

Ans ✔ 1. 8

✘ 2. 3

✘ 3. 6

✘ 4. 2

Q.62 This question is based on the five, three-digit numbers given below.

(Left) 157 643 351 267 872 (Right)

(Example- 697 – First digit = 6, second digit = 9 and third digit = 7)

NOTE: All operations to be done from left to right.

If all the numbers are arranged in descending order, the position(s) of how many numbers will remain unchanged?

Ans ✗ 1. 4

✓ 2. 3

✗ 3. 1

✗ 4. 2

Q.63 Seven boxes U, V, W, X, P, Q and R are kept one over the other but not necessarily in the same order. Only two boxes are kept between P and U. Only X is kept above W. No box is kept below U. R is kept at some place below V but at some place above Q. Which box is kept third above Q?

Ans ✓ 1. V

✗ 2. U

✗ 3. R

✗ 4. X

Q.64 FGH starts from Point A and drives 16 km towards south. He then takes a left turn, drives 12 km, turns left and drives 28 km. He then takes a left turn and drives 23 km. He takes a final left turn, drives 12 km and stops at Point P. How far (the shortest distance) and towards which direction should he drive in order to reach Point A again? (All turns are 90° turns only, unless specified.)

Ans ✗ 1. 6 km towards west

✗ 2. 10 km towards west

✓ 3. 11 km towards east

✗ 4. 9 km towards east

Q.65 A @ B means 'A is the daughter of B',
A * B means ' A is the father of B',
A - B means 'A is the son of B' and
A $ B means 'A is the sister of B'.
Based on the above information, which of the following means that H is the brother's daughter of D?

Ans ✗ 1. H $ A * M - I @ D

✗ 2. H @ A - M $ I * D

✗ 3. H * A @ M $ I - D

✓ 4. H @ A - M * I $ D

Q.66 A is the sister of B's daughter C. K is the mother of C, and L is the father of K. How is A related to L?

Ans ✗ 1. Daughter's son

✗ 2. Son's son

✓ 3. Daughter's daughter

✗ 4. Son's daughter

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Q.67 Which of the following letter-clusters should replace # and % so that the pattern and relationship followed between the letter-cluster pair on the left side of :: is the same as that on the right side of :: ?

: HJE :: OQL : %

Ans   ✔ 1. # = LNI, % = KMH

   ✘ 2. # = MLI, % = KJK

   ✘ 3. # = PKO, % = NHU

   ✘ 4. # = HGY, % = LHU

Q.68 NHLO is related to SMQT in a certain way based on the English alphabetical order. In the same way, PJNQ is related to UOSV. To which of the following is RLPS related, following the same logic?

Ans   ✘ 1. QWUX

   ✘ 2. WQXU

   ✔ 3. WQUX

   ✘ 4. QWXU

Q.69 D, E, F, G, H, I and T are sitting around a circular table facing the centre of the table. F sits third to the left of H. Only one person sits between H and T when counted from the left of T. Only two people sit between G and I when counted from the right of I. D is an immediate neighbour of G. Who sits third to the right of E?

Ans   ✘ 1. I

   ✘ 2. D

   ✘ 3. T

   ✔ 4. F

Q.70 Rahul starts from Point A and drives 7 km towards East. He then takes a right turn, drives 2 km, turns right and drives 4 km. He then takes a right turn and drives 6 km. He takes a final left turn, drives 3 km and stops at Point B. How far (shortest distance) and towards which direction should he drive in order to reach Point A again? (All turns are 90 degree turns only unless specified.)

Ans   ✘ 1. 6 km towards North

   ✘ 2. 11 km towards East

   ✘ 3. 11 km towards North

   ✔ 4. 4 km towards South

Section : General Awareness

Q.71 कृषि में हिस्सेदारी के लिए _____ की आवश्यकता है, जो मुख्य रूप से भूमि जोत के स्वामित्व में परिवर्तन को संदर्भित करता है।

Ans   ✔ 1. भूमि सुधार

   ✘ 2. जमींदारी प्रथा

   ✘ 3. भूमि चकबंदी

   ✘ 4. भूमि अधिग्रहण

Q.72 Where did the Judo Federation of India conduct the Senior National Judo Championships 2023-24 in the month of October 2023?

Ans   ✔ 1. Jaipur

   ✘ 2. Patna

   ✘ 3. Bhopal

   ✘ 4. New Delhi

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Q.73 Which food safety management system published in 2005 provides a framework for organisations to manage food safety?

Ans ✗ 1. ISO 17025

✓ 2. ISO 22000

✗ 3. ISO 14000

✗ 4. ISO 9000

Q.74 Where was the joint military exercise MAITREE 2024 conducted between the Indian Army and the Royal Thailand Army?

Ans ✗ 1. Bangkok, Thailand

✗ 2. Chiang Mai, Thailand

✗ 3. Phuket, Thailand

✓ 4. Tak Province, Thailand

Q.75 Who among the following kings of the Gupta dynasty married the Lichchhavi princess (Kumari devi)?

Ans ✗ 1. Samudra Gupta

✗ 2. Kumara Gupta

✗ 3. Chandra Gupta II

✓ 4. Chandra Gupta I

Q.76 Which of the following Gurjara-Parthihara kings was highly praised by the Arabian scholar Sulaiman for keeping his empire safe from robbers?

Ans ✗ 1. Nagabhata II

✗ 2. Ramabhadra

✗ 3. Vatsaraja

✓ 4. Mihira Bhoja

Q.77 Which of the following Articles of the Indian Constitution guarantees protection against arrest and detention in certain cases?

Ans ✗ 1. Article 23

✗ 2. Article 21

✗ 3. Article 20

✓ 4. Article 22

Q.78 According to the DSCI-SEQRITE India Cyber Threat Report, 2023, which of the following industrial sectors has/have detected the highest number of malware attack spectrums?

Ans ✗ 1. IT Industries

✓ 2. Automobiles

✗ 3. Education

✗ 4. Logictics

Q.79 In _____, tales from Mahabharata are sung as a ballad and one or two episodes are chosen for the night's performance in Chhattisgarh.

Ans ✗ 1. Sohar

✓ 2. Pandavani

✗ 3. Chhakri

✗ 4. Alha

Q.80   Rauwolfia serpentina is a:

Ans   ✗ 1. helminth parasite

      ✗ 2. poisonous snake

      ✗ 3. contributing organism of AIDS

      ✔ 4. medicinal plant

Q.81   Who is the author of the story book The End of Imagination?

Ans   ✗ 1. Pema Dorjee

      ✗ 2. Prasanna Kumar Acharya

      ✗ 3. Shashi Tharoor

      ✔ 4. Arundhati Roy

Q.82   Which of the following factors mainly contributes to the difference of temperature between the coastal and interior areas?

Ans   ✔ 1. Distance from the sea (continentality)

      ✗ 2. Altitude

      ✗ 3. Latitude

      ✗ 4. Ocean currents

Q.83   What characterises employment in the informal sector of the Indian economy?

Ans   ✗ 1. Workers are entitled to social security benefits and formal job protection.

      ✔ 2. Employment primarily involves self-employment or small, unregistered businesses.

      ✗ 3. Informal sector jobs are typically high-wage positions.

      ✗ 4. Employment contracts are always written and legally binding.

Q.84   What is the product of the following reaction?

       2NaOH (aq) + Zn (s) →
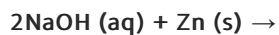
Ans   ✗ 1. Na_2ZnO_2 (s) and H_2O (l)

      ✗ 2. ZnO_2 (s) and H_2O (l)

      ✗ 3. ZnO_2 (s) and N_2O (g)

      ✔ 4. Na_2ZnO_2 (s) and H_2 (g)

Q.85   As part of military-to-military exchange programmes, a contingent of Indian Special Forces troops engaged in a bilateral joint training exercise GARUDA SHAKTI with which of the following countries in Nov 2022?

Ans   ✗ 1. Malaysia

      ✗ 2. Vietnam

      ✔ 3. Indonesia

      ✗ 4. Taiwan

Q.86   Where is the Lalitagiri Buddhist site located?

Ans   ✗ 1. Bihar

      ✔ 2. Odisha

      ✗ 3. Haryana

      ✗ 4. Rajasthan

Q.87 What is the name of the Prime Minister's new rooftop solar power scheme launched by Shri Narendra Modi on 15 February 2024?

Ans ✔ 1. PM Surya Ghar: Muft Bijli Yojana

✘ 2. Pradhan Mantri Ujala Yojana

✘ 3. Pradhan Mantri Gram Ujala Yojana

✘ 4. Pradhan Mantri Surya Kiran Yojana

Q.88 Who among the following holds office during the pleasure of the President?

Ans ✘ 1. Chairman of the Union Public Service Commission

✔ 2. Attorney General of India

✘ 3. Comptroller and Auditor General of India

✘ 4. Speaker of the Lok Sabha

Q.89 Who among the following was NOT associated with 'Servants of India Society'?

Ans ✘ 1. Gopal Krishna Deodhar

✘ 2. Anant Vinayak Patwardhan

✘ 3. Natesh Appaji Dravid

✔ 4. Bal Gangadhar Tilak

Q.90 At which of the following sessions of the Congress did it get split into the Moderates and the Extremists?

Ans ✘ 1. Calcutta

✔ 2. Surat

✘ 3. Lahore

✘ 4. Allahabad

Q.91 Which of the following is the longest train route in India as of 2023?

Ans ✘ 1. Tirunelveli-Katra

✘ 2. Agartala-Bangaluru

✘ 3. Tiruvananthpuram-Silchar

✔ 4. Dibrugarh-Kanniyakumari

Q.92 When did Ashwini Vaishnaw launch Digital Intelligence Platform (DIP) of Department of Technology for Coordination among the stakeholders to curb misuse of telecom resources in cyber-crime and financial fraud?

Ans ✘ 1. July 2024

✘ 2. August 2024

✔ 3. March 2024

✘ 4. January 2024

Q.93 Which of the following is associated with strain?

Ans ✘ 1. Raster

✔ 2. Dimensionless

✘ 3. Vector

✘ 4. Scalar

Q.94 VL-832, PBW-502 and Aditya (HD 2781) are varieties of which Indian crop?

Ans
✗ 1. Jute

✗ 2. Rice

✔ 3. Wheat

✗ 4. Maize

Q.95 In March 2024, Sports Minister Anurag Thakur announced the establishment of how many National Centres of Excellence (NCOE) exclusively for women on the occasion of International Women's Day?

Ans
✔ 1. Two

✗ 2. Three

✗ 3. Four

✗ 4. Five

Q.96 According to the sustainable development approach, which of the following strategies is essential for rural development?

Ans
✔ 1. Integrating environmental sustainability with economic development

✗ 2. Focusing solely on agricultural productivity

✗ 3. Increasing reliance on non-renewable resources

✗ 4. Prioritising short-term economic gains

Q.97 Who among the following had one of their capitals at Benaras?

Ans
✗ 1. Palas

✗ 2. Paramaras

✔ 3. Gahadavalas

✗ 4. Chahamanas

Q.98 Which of the following authorites in India have the power to terminate the citizenship of an individual under certain circumstances?

Ans
✗ 1. Any State Government

✗ 2. Delhi Government

✔ 3. Union Government

✗ 4. Supreme Court

Q.99 Select the correct statement among the following regarding the Lok Adalats.

1. This is a symbol of the justice system that has been prevalent since ancient times.
2. This system is based on Gandhian principles.
3. After independence, the first Lok Adalat in India was established in Madhya Pradesh in the year 1982.
4. The decision given by the Lok Adalat is not binding on both the parties.

Ans
✗ 1. Only 2, 3 and 4

✗ 2. Only 1

✗ 3. Only 1, 3 and 4

✔ 4. Only 1 and 2

Q.100 Which initiative of the Government of India aims to integrate various sub-schemes related to safety, security, and empowerment of women under an umbrella scheme for greater efficiency and effectiveness in India?

Ans ✗ 1. Mission Nirbhaya

✗ 2. Mission Yukti

✓ 3. Mission Shakti

✗ 4. Mission Vatsalya

Q.101 To which phylum do round worms belong?

Ans ✗ 1. Platyhelminthes

✓ 2. Aschelminthes

✗ 3. Ctenophora

✗ 4. Annelida

Q.102 In eastern Bengal, Matua sect of social reformer, _____ worked among Chandala cultivators.

Ans ✗ 1. Ishwar Chandra Vidyasagar

✗ 2. Akshay Kumar Datta

✗ 3. Guru Ghasidas

✓ 4. Haridas Thakur

Q.103 Spain joined the International Solar Alliance (ISA) as which member in May 2024?

Ans ✗ 1. 100th

✗ 2. 94th

✗ 3. 97th

✓ 4. 99th

Q.104 Which of the following is against globalisation?

Ans ✓ 1. Globalisation increases economic disparities.

✗ 2. Globalisation increases the diversification of products.

✗ 3. Globalisation increases the use of advanced technology.

✗ 4. Globalisation increases access to global markets.

Q.105 In which of the following countries is the policy of dual citizenship accepted?

Ans ✗ 1. China

✓ 2. US

✗ 3. UK

✗ 4. India

Q.106 Where did Prime Minister Narendra Modi inaugurate the opening ceremony of the Khelo India Youth Games 2023 in January 2024?

Ans ✓ 1. Chennai

✗ 2. Madurai

✗ 3. Trichy

✗ 4. Coimbatore

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Q.107 Identify the INCORRECT pair of biosphere reserve and its associated state from the given options.

Ans ✗ 1. Seshachalam – Andhra Pradesh

✔ 2. Nokrek – Mizoram

✗ 3. Dibru-Saikhowa – Assam

✗ 4. Panna – Madhya Pradesh

Q.108 India's first tilapia parvovirus contamination was reported in Tamil Nadu in October 2023. The virus primarily infected _____.

Ans ✗ 1. bats

✔ 2. fishes

✗ 3. monkeys

✗ 4. goats

Q.109 Which of the following launch vehicles was used to launch the Aditya- L1, the first solar mission of India?

Ans ✔ 1. Polar Satellite Launch Vehicle -XL

✗ 2. Geosynchronous Launch Vehicle

✗ 3. Geosynchronous Launch Vehicle Mark III

✗ 4. Space Launch Vehicle

Q.110 Which of the following union territories reported the highest literacy rate according to the Census of India 2011?

Ans ✔ 1. Lakshadweep

✗ 2. Daman and Diu

✗ 3. Chandigarh

✗ 4. Puducherry

Q.111 Which of the following schemes hasShishu, Kishore and Tarun sub-schemes?

Ans ✗ 1. Start-up India

✗ 2. Gold Monetisation Scheme

✔ 3. Mudra Yojana

✗ 4. DeenDayal Upadhyaya Grameen Kaushalya Yojana

Q.112 Which of the following is the highest law officer in the Government of India?

Ans ✗ 1. Chief Justice of India

✗ 2. Judge of the Supreme Court

✔ 3. Attorney General of India

✗ 4. Judge of High court

Q.113 Which of the following did the conventional method specifically define as 'quasi-money'?

Ans ✔ 1. Financial instruments that are not media of exchange but are substitutes

✗ 2. Media of exchange considered as money

✗ 3. Narrow money

✗ 4. All forms of money

Q.114 Which of the following was NOT a part of Shailendra Empire, founded in the South East Asia, in the 8th Century CE?

Ans ✅ 1. Srilanka

❌ 2. Java

❌ 3. Malaya

❌ 4. Sumatra

Q.115 Which Article of the Indian constitution deals with the advisory jurisdiction of the Supreme Court?

Ans ❌ 1. Article 145

❌ 2. Article 142

❌ 3. Article 148

✅ 4. Article 143

Q.116 Which Carnatic vocalist was popularly known as the 'Nightingale of India'?

Ans ✅ 1. MS Subbulakshmi

❌ 2. Balamuralikrishna

❌ 3. Lalgudi Jayaraman

❌ 4. DK Pattammal

Q.117 Match the (List-I cities) with (List-II temperature) characteristics: and chose your answer the code below.

(List-I - Cities) (List-II - Temperature)
(A) Pahalgam I. 50ºC in summer, 15ºC at night
(B) Drass II. Temperature can be as low as minus 45ºC
(C) Thar Desert III. Around 20ºC in summer
(D) Thiruvananthapuram IV. Temperature is 22ºC

Ans ✅ 1. (a) iii (b) ii (c) i (d) IV

❌ 2. (a) iii (b) i (c) ii (d) iii

❌ 3. (a) iv (b) iii (c) ii (d) i

❌ 4. (a) ii (b) iii (c) i (d) iv

Q.118 Through which of the following platforms does the New India Literacy Programme (NILP) encourage learners to access content in local languages across the country?

Ans ❌ 1. DISHA portal

❌ 2. Google Classroom

✅ 3. DIKSHA platform

❌ 4. PM Abhyas portal

Q.119 Which of the following has the highest specific heat capacity at room temperature and atmospheric pressure?

Ans ❌ 1. Glass

❌ 2. Mercury

✅ 3. Water

❌ 4. Iron

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Q.120 NASA's very first space mission to study an M-type (metallic) asteroid, Psyche mission, was launched on which date from Kennedy Space Center?

Ans ✗ 1. 15 March 2023

✗ 2. 01 July 2023

✗ 3. 27 December 2023

✓ 4. 13 October 2023

2024/12/04-20:12:06

Section : **Arithmetic**

Q.1 A cone is 12.6 cm high and the radius of the base is 3.2 cm. It is melted and recast into a sphere. Determine the radius of the sphere.(Correct up to one decimal place)

Ans ✗ 1. 1.2 cm

✔ 2. 3.2 cm

✗ 3. 2.1 cm

✗ 4. 2.9 cm

Q.2 If $24 \times 9 \times 720 \div \sqrt{2304} = y + 925$, then find the value of y.

Ans ✗ 1. 2310

✔ 2. 2315

✗ 3. 2307

✗ 4. 2316

Q.3 The ratio of numbers of girls and boys participating in sports of a school is 1 : 5. If the number of girls is 249, determine the number of boys participating in the sports.

Ans ✗ 1. 1220

✔ 2. 1245

✗ 3. 1275

✗ 4. 1265

Q.4 A bank offers 8.1% compound interest per annum calculated on a half-yearly basis. A customer deposits ₹8445 each on 1 January and 1 July of a year. At the end of the year, the amount he would have gained by way of interest is _____. [Give your answer correct to 2 decimal places.]

Ans ✗ 1. ₹1048.4

✗ 2. ₹1069.91

✔ 3. ₹1039.91

✗ 4. ₹1057.26

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Q.5 Which of the following fractions is the largest?

$$\frac{4}{7}, \frac{4}{45}, \frac{65}{87}, \frac{12}{38}$$

Ans ✗ 1. $\frac{12}{38}$

✓ 2. $\frac{65}{87}$

✗ 3. $\frac{4}{7}$

✗ 4. $\frac{4}{45}$

Q.6 What time (in seconds) is required for a 549 m long train to cross a 421 m long tunnel, if the train travels at a speed of 36 km/h?

Ans ✗ 1. 90

✗ 2. 89

✗ 3. 101

✓ 4. 97

Q.7 Nandini and Nandita invest in a business in the ratio 23 : 3. If total profit is Rs. 2522, then what is difference between the profit (in Rs.) of Nandini and Nandita?

Ans ✓ 1. 1940

✗ 2. 1790

✗ 3. 1840

✗ 4. 1890

Q.8 A shopkeeper lists the price of a fan at 20% above its cost price and offers a 15% discount on its list price. If he earns a profit of ₹190, then what is the list price (in ₹) of the fan?

Ans ✓ 1. 11400

✗ 2. 11243

✗ 3. 11549

✗ 4. 11528

Q.9 If a 1952 m long train crosses a pole in 122 seconds, then find the time (in seconds) taken by the train to cross a 160 m long platform.

Ans ✗ 1. 135

✗ 2. 128

✓ 3. 132

✗ 4. 137

Q.10 Express the following as a vulgar fraction.

$0.\overline{23} + 0.\overline{54} + 0.\overline{3}$

Ans   ✔ 1. $\dfrac{10}{9}$

    ✘ 2. $\dfrac{11}{9}$

    ✘ 3. $\dfrac{11}{99}$

    ✘ 4. $\dfrac{10}{99}$

Q.11 The total surface area of a solid hemisphere is 152 cm². Its radius (in cm) is $Take\ \pi = \dfrac{22}{7}$

Ans   ✘ 1. $\sqrt{\dfrac{535}{33}}$

    ✘ 2. $\sqrt{\dfrac{541}{66}}$

    ✘ 3. $\sqrt{\dfrac{541}{33}}$

    ✔ 4. $\sqrt{\dfrac{532}{33}}$

Q.12 A number when increased by 50 %', gives 3630. The number is:

Ans   ✘ 1. 4840

    ✘ 2. 7260

    ✔ 3. 2420

    ✘ 4. 1210

Q.13 The average of 41 numbers is 16. The average of the first 17 numbers is 27 and the average of the last 25 numbers is 26. If the 17th number from the beginning is excluded, then what is the average of the remaining numbers?

Ans   ✘ 1. 9.085

    ✘ 2. 5.5

    ✘ 3. 3.43

    ✔ 4. 5.075

Q.14 During sale, Raghav bought a notebook marked for ₹60 at 25% discount and a pen marked for ₹80 at 25% discount. How much (in ₹) did he save due to sale?

Ans   ✔ 1. 35

    ✘ 2. 36

    ✘ 3. 38

    ✘ 4. 33

Q.15 The smallest natural number which is divisible by 16, 88, 12 and 22 is:

Ans ✗ 1. 567

✔ 2. 528

✗ 3. 501

✗ 4. 476

Q.16 The average price of three items of furniture is Rs 15855. If their prices are in the ratio 3:5:7, the price of the costliest item (in Rs) is

Ans ✔ 1. 22197

✗ 2. 7399

✗ 3. 5285

✗ 4. 3171

Q.17 The smallest 1-digit number to be added to the 6-digit number 318833 so that it is completely divisible by 11 is:

Ans ✗ 1. 7

✗ 2. 3

✔ 3. 2

✗ 4. 5

Q.18 Find the value of $\left[(23 \times 7) \times \left\{ 6 \div 6 \times \dfrac{(17-13)}{4} \right\} \right]$

Ans ✗ 1. 158

✗ 2. 175

✗ 3. 143

✔ 4. 161

Q.19 If the interest earned during the 2nd year on a certain sum is ₹6787, and the rate of interest is 10% per annum compounded annually, then the sum is:

Ans ✗ 1. ₹62530

✗ 2. ₹62005

✗ 3. ₹60805

✔ 4. ₹61700

Q.20 The average weight of P, Q and R is 45 kg and that of Q and R is 20 kg. Find the weight of P.

Ans ✗ 1. 94 kg

✗ 2. 92 kg

✔ 3. 95 kg

✗ 4. 90 kg

Q.21 Two trains of equal length are running on parallel lines in the same direction at speeds of 112 km/h and 20 km/h. The faster train passes the slower train in 45 seconds. The length of each train is:

Ans ✗ 1. 563 meters

✗ 2. 572 meters

✗ 3. 576 meters

✓ 4. 575 meters

Q.22 If x varies inversely as $y^3 - 1$ and is equal to 6 when y = 3, find x when y = 7.

Ans ✗ 1. $\dfrac{27}{58}$

✓ 2. $\dfrac{26}{57}$

✗ 3. $\dfrac{26}{58}$

✗ 4. $\dfrac{28}{57}$

Q.23 The following pie chart shows the percentage distribution of the expenditure incurred in publishing a book.

Pie-chart shows the percentage distribution of the expenditure incurred in publishing a book
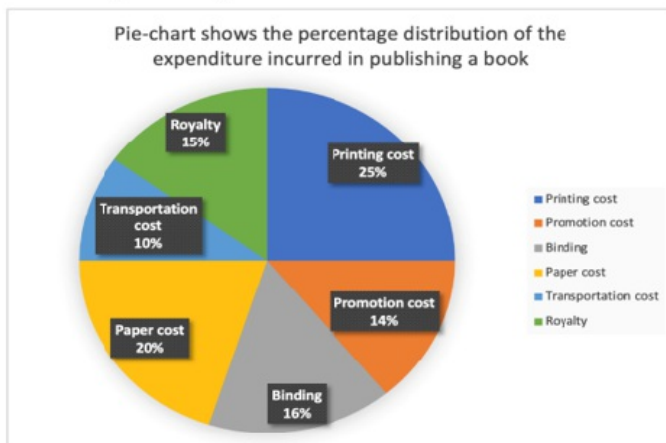
If, for a certain quantity of books, the publisher pays ₹20,400 as paper cost, then what is the difference between printing cost and royalty (in ₹) for these books?

Ans ✗ 1. 13600

✗ 2. 12400

✗ 3. 11600

✓ 4. 10200

Q.24 The expenditure of Sudha is 200% more than her savings. If her expenditure decreases by 4% and savings increase by 28%, then by what percent does her income increase?

Ans ✗ 1. 0.08

✗ 2. 0.07

✗ 3. 0.09

✓ 4. 0.04

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Q.25 400 oranges were bought at ₹1410 per hundred and were sold at a profit of ₹960. Find the selling price (in ₹) per dozen of oranges.

Ans ✔ 1. 198

✘ 2. 213

✘ 3. 188

✘ 4. 208

Q.26 A shopkeeper marks an article at ₹x and offers a discount of 15% on it. He sells it for ₹408 after charging VAT of 25% on the discounted price. What is the value of ₹ x?

Ans ✘ 1. ₹200

✘ 2. ₹600

✘ 3. ₹300

✔ 4. ₹384

Q.27 If the number 934a6281 is completely divisible by 3 and a be the smallest positive integer, then find the value of (a−2)(a−1)a (a+1)(a+2)(a+3)(a+4).

Ans ✘ 1. 5400

✘ 2. 4050

✘ 3. 5004

✔ 4. 5040

Q.28 The average of eight numbers is 20. The average of five of these numbers is 14. The average of the remaining three numbers is

Ans ✘ 1. 32

✔ 2. 30

✘ 3. 29

✘ 4. 31

Q.29 If $26 \times 5 \times 882 \div \sqrt{2401} = y + 695$, then find the value of y.

Ans ✘ 1. 1655

✔ 2. 1645

✘ 3. 1651

✘ 4. 1652

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Q.30 Two right circular cones have heights in the ratio 1 : 9 and their base perimeters are in the ratio 9 : 5. Determine their volume ratio. (Use $\pi = \frac{22}{7}$)

Ans
  ✗ 1. 25 : 7

  ✗ 2. 7 : 25

  ✓ 3. 9 : 25

  ✗ 4. 25 : 9

Q.31 If 'a' is the smallest positive integer and the number 8764a529 is completely divisible by 9, then find the value of 17 (3a+5).

Ans
  ✗ 1. 236

  ✗ 2. 116

  ✓ 3. 289

  ✗ 4. 126

Q.32 The value of
$$\frac{1}{7} + \frac{5}{7} + \frac{2}{14} + \frac{4}{7} - 2 =$$

Ans
  ✗ 1. $-\frac{3}{14}$

  ✗ 2. $-\frac{5}{14}$

  ✗ 3. $-\frac{8}{14}$

  ✓ 4. $-\frac{6}{14}$

Q.33 The average of 41 numbers is 33. The average of the first 17 numbers is 41 and the average of the last 25 numbers is 27. If the 17th number from the beginning is excluded, then what is the average of the remaining numbers?

Ans
  ✓ 1. 33.35

  ✗ 2. 34.53

  ✗ 3. 32.215

  ✗ 4. 30.1

Q.34 Anmol completes his journey in 16 hours. He covers half the distance at 30 km/h and the rest at 50 km/h. What is the length of the journey (in Km)?

Ans   ✗ 1. 599

     ✗ 2. 604

     ✗ 3. 607

     ✔ 4. 600

Q.35 A sum, when invested at 20% simple interest per annum, amounts to ₹2880 after 3 years. What is the simple interest (in ₹) on the same sum at the same rate in 2 year?

Ans   ✗ 1. 2880

     ✗ 2. 1440

     ✗ 3. 360

     ✔ 4. 720

Section : **General Intelligence and Reasoning**

Q.36 Based on the English alphabetical order, three of the following four letter-clusters are alike in a certain way and thus form a group. Which letter-cluster DOES NOT belong to that group?

(Note: The odd one out is not based on the number of consonants/vowels or their position in the letter-cluster.)

Ans   ✔ 1. EDD

     ✗ 2. TRS

     ✗ 3. XVW

     ✗ 4. WUV

Q.37 Among five people named A, B, C, D and E, each have a certain age. C is thrice the age of D. The age of A is 3. D is half the age of E. B is twice the age of A. If E is four times the age of B, what is the age of C?

Ans   ✔ 1. 36

     ✗ 2. 40

     ✗ 3. 34

     ✗ 4. 38

Q.38 Two sets of numbers are given below. In each set of numbers, certain mathematical operation(s) on the first number results in the second number. Similarly, certain mathematical operation(s) on the second number results in the third number and so on. Which of the given options follows the same set of operations as in the given sets? (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 – Operations on 13 such as adding / subtracting /multiplying to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

36 - 18 - 20.4 - 22.8
48 - 24 - 26.4 - 28.8

Ans ✗ 1. 48 - 24 - 28.4 - 30.8

✔ 2. 54 - 27 - 29.4 - 31.8

✗ 3. 42 - 14 - 16.4 - 18.8

✗ 4. 72 - 36 - 36.4 - 38.8

Q.39 The 3 figures given below are alike in a certain way as they share certain feature(s). Select the option that shares the same features as the given figures.

Ans 1.

✗

2.

✗

3.

✔

4.

✗
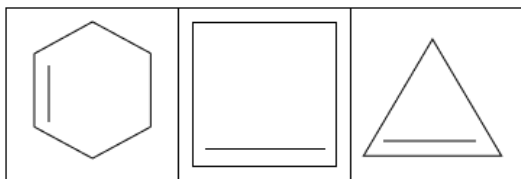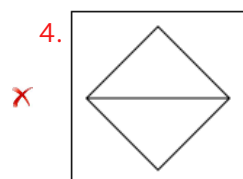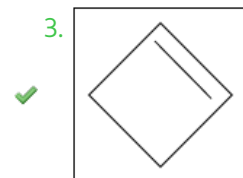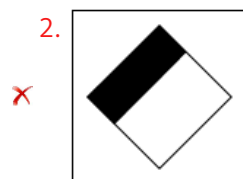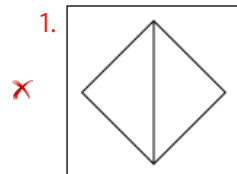
Q.40 In a certain code language,

A + B means 'A is the son of B',

A – B means 'A is the brother of B',

A × B means 'A is the wife of B',

and A % B means 'A is the father of B'.

How is S related to H if 'S % D – F × G + H'?

Ans ✗ 1. Son's wife's brother

✗ 2. Wife's father

✓ 3. Son's wife's father

✗ 4. Wife's brother

Q.41 A, B, C, D, E, F and G sit in a straight line facing North. Only two people sit to the right of G. Only two people sit between G and E. Only two people sit between D and B. B sits to the immediate left of G. A sits to the immediate right of F. How many people sit between D and F?

Ans ✗ 1. 2

✗ 2. 1

✗ 3. 3

✓ 4. 4

Q.42 G is the father of H. H is the mother of J. J is the brother of K. K is the son of L. How is G related to L?

Ans ✗ 1. Husband's mother

✗ 2. Husband's father

✗ 3. Wife's brother

✓ 4. Wife's father

Q.43 In the following triads, each group of letters is related to the subsequent one following a certain logic. Select from the given options, the one that follows the same logic.

DIET - IDET - TEID

WASH - AWSH - HSAW

Ans ✗ 1. SANG - ASNG - GANS

✗ 2. HUTS - HTUS - STUH

✗ 3. TONG - OTNG - ONGT

✓ 4. FUME - UFME - EMUF

Q.44 Refer to the following letter, symbol series and answer the question that follows. (Counting to be done from left to right only.)

(Left) 7 % 4 £ 5 $ & 3 Ω + 2 6 @ 8 9 # 1 * ^ (Right)

How many symbols in the series are immediately preceded by another symbol and also immediately followed by a number?

Ans   ✗ 1. 3

    ✔ 2. 2

    ✗ 3. 1

    ✗ 4. 0

Q.45 Refer to the following number, symbol series and answer the question that follows. Counting to be done from left to right only.

(Left) 2 & % 4 6 Ω 7 $ £ 8 & @ 3 # 1 5 * 9 (Right)

How many such symbols are there each of which is immediately preceded by a number and also immediately followed by another number?

Ans   ✗ 1. One

    ✔ 2. More than two

    ✗ 3. None

    ✗ 4. Two

Q.46 Which numbers should come in place of the question marks (?) in the same sequence to make the series logically complete?
125 127 131 137 145 ? 167 ?

Ans   ✗ 1. 152, 182

    ✗ 2. 156, 185

    ✗ 3. 159, 189

    ✔ 4. 155, 181

Q.47 Seven boxes Q, R, S, T, U, V and F are kept one over the other but not necessarily in the same order. Only five boxes are kept between S and U. Only S is kept above V. Only two boxes are kept between Q and T. R is kept immediately above F. T is not kept immediately above R. How many boxes are kept between R and T?

Ans   ✔ 1. One

    ✗ 2. Two

    ✗ 3. Three

    ✗ 4. Four

Q.48 In a certain code language, 'CHAT' is coded as '1583' and 'ACTS' is coded as '5718'. What is the code for 'S' in that language?

Ans ✗ 1. 5

✗ 2. 8

✔ 3. 7

✗ 4. 1

Q.49 Each vowel in the word LASTING is changed to the letter immediately following it in the English alphabetical order and each consonant is changed to the letter immediately preceding it in the English alphabetical order. How many vowels are there in the group of letters thus formed?

Ans ✔ 1. 0

✗ 2. 2

✗ 3. 1

✗ 4. 3

Q.50 Based on the English alphabetical order, three of the following four letter-clusters are alike in a certain way and thus form a group. Which letter-cluster DOES NOT belong to that group?

(Note: The odd man out is not based on the number of consonants/vowels or their position in the letter-cluster.)

Ans ✗ 1. GJO

✔ 2. EKN

✗ 3. ADI

✗ 4. CFK

Q.51 In a certain code language, 'FAIR' is coded as '8547' and 'RAFT' is coded as '5486'. What is the code for 'T' in the given code language?

Ans ✔ 1. 6

✗ 2. 4

✗ 3. 5

✗ 4. 8

Q.52 16 is related to 62 following a certain logic. Following the same logic, 12 is related to 46. To which of the given options is 21 related to, following the same logic?

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 – Operations on 13 such as adding/subtracting/multiplying to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

Ans ✔ 1. 82

✗ 2. 84

✗ 3. 86

✗ 4. 80

Q.53 If 2 is added to each odd digit and 1 is subtracted from each even digit in the number 2836574, what will be the sum of the digits which are third from the left and third from the right in the new number thus formed?

Ans ✗ 1. 10

✗ 2. 7

✗ 3. 9

✔ 4. 12

Q.54 A, B, C, D, E and F live on six different floors of the same building. The lowermost floor in the building is numbered 1, the floor above it, number 2 and so on till the topmost floor is numbered 6. B lives on a floor that is a prime number. The product of the floors on which B and E live is 3. Only 2 people live above D. F lives immediately below C How many people live between A and F?

Ans ✗ 1. 4

✗ 2. 3

✔ 3. 1

✗ 4. 2

Q.55 CGJB is related to EILD in a certain way based on the English alphabetical order. In the same way, FJME is related to HLOG. To which of the following is IMPH related, following the same logic?

Ans ✗ 1. OKRJ

✗ 2. KOJR

✔ 3. KORJ

✗ 4. OKJR

Q.56 Which of the following letter-clusters should replace # and % so that the pattern and relationship followed between the letter-cluster pair on the left side of :: is the same as that on the right side of ::?

: KMR :: BDI : %

Ans ✗ 1. # = DFK; % = IKO

✗ 2. # = EFK; % = IKP

✗ 3. # = DFK; % = IMP

✔ 4. # = DFK; % = IKP

Q.57 What will come in the place of the question mark '?' in the following equation, if '+' and '−' are interchanged and '×' and '÷' are interchanged?

52 + 2 × 3 ÷ 6 − 42 + 11 × 3 ÷ 3 = ?

Ans ✗ 1. 102

✗ 2. 98

✓ 3. 79

✗ 4. 118

Q.58 DEF starts from Point A and drives 7 km towards south. He then takes a right turn, drives 19 km, turns right and drives 23 km. He then takes a right turn and drives 27 km. He takes a final right turn, drives 16 km and stops at Point P. How far (the shortest distance) and towards which direction should he drive in order to reach Point A again? (All turns are 90º turns only, unless specified.)

Ans ✓ 1. 8 km towards west

✗ 2. 5 km towards east

✗ 3. 3 km towards south

✗ 4. 9 km towards north

Q.59 Seven people, M, N, O, P, Q, R and T, are sitting around a circular table facing the centre of the table. Only two people sit between T and N when counted from the right of T. Only two people sit between R and P when counted from the right of R. M sits to the immediate right of P. M sits second to the left of T. Q is not an immediate neighbour of R. Who sits immediately to the left of O?

Ans ✓ 1. R

✗ 2. Q

✗ 3. N

✗ 4. P

Q.60 Based on the English alphabetical order, three of the following four are alike in a certain way and thus form a group. Which is the one that DOES NOT belong to that group?

Ans ✗ 1. LGQ

✗ 2. XSC

✗ 3. CXH

✓ 4. PKV

Q.61 Identify the figure given in the options which when put in place of the question mark (?) will logically complete the series.

| ▽
∝
¥ | ∝ △
¥ | ¥ ∝ ▽ | ¥ ∝
△ | ? |

Ans 1.

✗

| ¥
∝
▽ |

2.

✗

| 𝛂
∝
△ |

3.

✗

| ¥
∝
△ |

4.

✔

| ¥
∝
▽ |

Q.62 Each letter in the word COARSE is changed to the letter immediately succeeding it in the English alphabetical order and then all the letters thus formed are arranged in alphabetical order. Which of the following letters will be third from the right in the new group of letters thus formed?

Ans ✗ 1. F

✗ 2. S

✔ 3. P

✗ 4. D

Q.63 If 2 is added to each even digit and 1 is subtracted from each odd digit in the number 6159247, what will be the sum of the first two digits from the left in the new number thus formed?

Ans ✗ 1. 16

✔ 2. 8

✗ 3. 14

✗ 4. 12

Q.64 Each of P, Q, R, S, T, U and V go to play on a different day of a week starting from Monday and ending on Sunday of the same week.

S goes to play on Tuesday. Exactly two people go to play between S and P. Exactly two people go to play between V and U. Q goes to play on the day immediately after V. Only one person goes to play between R and V. Q goes to play on one of the days after P.

Who goes to play on Monday?

Ans ✗ 1. U

✗ 2. V

✗ 3. R

✔ 4. T

Q.65 Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusion(s) logically follow(s) from the statements.

Statements:
All wafers are biscuits.
All biscuits are cookies.
All cookies are pastries.

Conclusions:
(I) All biscuits are wafers.
(II) All pastries are cookies.

Ans ✗ 1. Both conclusions (I) and (II) follow.

✔ 2. Neither conclusion (I) nor (II) follows.

✗ 3. Only conclusion (I) follows.

✗ 4. Only conclusion (II) follows.

Q.66 In a certain code language, 'CONE' is coded as '1649' and 'NECK' is coded as '2169'. What is the code for 'K' in that language?

Ans ✔ 1. 2

✗ 2. 1

✗ 3. 9

✗ 4. 6

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Q.67 Select the term from among the given options that can replace the question mark (?) in the following series.

TUM 21 RVP 15 ? NXV 3 LYY -3

Ans   ✗ 1. QSP 8

     ✗ 2. PSR 8

     ✗ 3. ORP 9

     ✔ 4. PWS 9

Q.68 Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.

M

V B Ь N M A

N

Ans   ✔ 1. A M И Ь B V

     ✗ 2. A M И Ь V B

     ✗ 3. M A И Ь B V

     ✗ 4. A M Ь N B V

Q.69 Vidit starts from Point A and drives 7 km towards South. He then takes a left turn, drives 5 km, turns left and drives 9 km. He then takes a left turn and drives 8 km. He takes a final left turn, drives 2 km and stops at Point P. How far (shortest distance) and towards which direction should he drive in order to reach Point A again? (All turns are 90 degree turns only unless specified.)

Ans   ✔ 1. 3 km to the east

     ✗ 2. 3 km to the west

     ✗ 3. 4 km to the east

     ✗ 4. 4 km to the west

Q.70 Which of the following letter-number clusters will replace the question mark (?) in the given series to make it logically complete?

ENS 103 HKV 95 KHY 87 NEB 79 QBE 71 ?

Ans ✗ 1. SXF 61

✓ 2. TYH 63

✗ 3. UZG 61

✗ 4. UYK 63

Section : **General Awareness**

Q.71 The _____ direct(s) and guide(s) the nation/state for equitable society and provide(s) module to the government in formulating policies and enactment of laws.

Ans ✗ 1. Judiciary

✗ 2. Bureaucracy

✗ 3. Enforcement Directorate

✓ 4. Directive Principles

Q.72 Kulottunga I was a king of which of the following dynasties?

Ans ✗ 1. Gurjara-Partihara

✓ 2. Chola

✗ 3. Pandya

✗ 4. Rashtrakuta

Q.73 Which of the following roles does the Small Industries Development Bank of India (SIDBI) perform in Indian economy?

Ans ✓ 1. Financing and promoting Micro, Small, and Medium Enterprises (MSMEs)

✗ 2. Regulating foreign exchange transactions

✗ 3. Supervising credit rating agencies

✗ 4. Managing government pension funds

Q.74 Which of the following is responsible for the protection and enforcement of Fundamental Rights in India?

Ans ✗ 1. Union Public Service Commission (UPSC)

✓ 2. Supreme Court of India

✗ 3. Election Commission of India

✗ 4. National Human Rights Commission (NHRC)

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Q.75 When was 'Victoria Memorial' built in India?

Ans ✗ 1. 1806

    ✔ 2. 1906

    ✗ 3. 1900

    ✗ 4. 1857

Q.76 In which of the following years was the Overseas Citizenship of India Scheme introduced by amending Citizenship Act 1955?

Ans ✗ 1. 2009

    ✗ 2. 2001

    ✔ 3. 2005

    ✗ 4. 2004

Q.77 Which of the following states recorded a population of more than 10 crore in the Census of India 2011?

Ans ✗ 1. Rajasthan

    ✔ 2. Bihar

    ✗ 3. Tamil Nadu

    ✗ 4. Madhya Pradesh

Q.78 In which year was Gibberellic acid discovered by Eiichi Kurosawa, which is known to stimulate seed germination and cell proliferation?

Ans ✗ 1. 1975

    ✗ 2. 1950

    ✔ 3. 1926

    ✗ 4. 1910

Q.79 Rohit Sharma finished at which position in the table of leading run-scorers in the Men's T20 World Cup 2024 tournament?

Ans ✗ 1. First

    ✗ 2. Fifth

    ✗ 3. Third

    ✔ 4. Second

Q.80 A lens has a power of −0.25D. What is the nature and focal length of this lens?

Ans ✗ 1. Convex lens of focal length −8 metres

    ✗ 2. Concave lens of focal length −2 metres

    ✗ 3. Convex lens of focal length 4 metres

    ✔ 4. Concave lens of focal length −4 metres

Q.81   Which of the following rivers is known for NOT draining into the sea but rather into salt lakes or sand?

Ans   ✗ 1. Krishna

✗ 2. Mahanadi

✔ 3. Luni

✗ 4. Chambal

Q.82   Who among the following founded the 'Satya Shodhak Samaj', in 1873?

Ans   ✔ 1. Jyotirao Govindrao Phule

✗ 2. Raja Rammohan Roy

✗ 3. Radhakant Deb

✗ 4. Ishwar Chandra Vidyasagar

Q.83   Which of the following statements is/are true for the Carnatic Music in India?

1.Gitam is the simplest type of composition.

2.Khayal is a part of Carnatic Classical music.

3.Padas are scholarly compositions in Telugu and Tamil languages.

Ans   ✗ 1. Both 1 and 2

✔ 2. Both 1 and 3

✗ 3. Both 2 and 3

✗ 4. Only 2

Q.84   Which of the following sites is better known as a Chalcolithic Site?

Ans   ✗ 1. Mehrgarh

✗ 2. Burzahom

✗ 3. Utnur

✔ 4. Kayatha

Q.85   According to the basic road statistics (2017-18) provided by the Ministry of Road Transport and Highways, which state has the largest total surface road length in India?

Ans   ✔ 1. Maharashtra

✗ 2. Madhya Pradesh

✗ 3. Rajasthan

✗ 4. Uttar Pradesh

Q.86   Which of the following is a form of folk music?

Ans   ✔ 1. Naworia-geet

✗ 2. Dhrupad

✗ 3. Bhand pather

✗ 4. Sufiana kalam

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Q.87 The elastic potential energy of a strained body is:

Ans
  ✔ 1. ½ × stress × strain × volume

  ✘ 2. stress × strain / volume

  ✘ 3. stress × strain

  ✘ 4. stress/strain

Q.88 QUEQIAO-2 signal relay satellite was launched by which country in 2024 to serve as the communication bridge for its future lunar probe missions?

Ans
  ✘ 1. Japan

  ✘ 2. North Korea

  ✘ 3. South Korea

  ✔ 4. China

Q.89 In 1991, in order to make international adjustment the rupee was:

Ans
  ✘ 1. printed

  ✘ 2. appreciated

  ✘ 3. stabilised

  ✔ 4. devalued

Q.90 Which of the following mountain passes DOES NOT lie in Uttarakhand?

Ans
  ✔ 1. Nathu La

  ✘ 2. Lipu Lekh

  ✘ 3. Lampiya Dhura

  ✘ 4. Lwa Dhura

Q.91 The Indian Airforce and Army jointly conducted the Vayu-Prahar Exercise in which of the following theatre commands?

Ans
  ✘ 1. Northern Theatre

  ✘ 2. Western Theatre

  ✘ 3. Southern Theatre

  ✔ 4. Eastern Theatre

Q.92 Who is the head of Union Executive in India?

Ans
  ✔ 1. The President

  ✘ 2. The Prime Minister

  ✘ 3. The Governor

  ✘ 4. Chief Justice of Supreme Court

Q.93 Vigyan Yuva 2024 awardee in Biological Sciences category, Prof. Aravind Penmatsa, is Assistant Professor at which of the following institutions?

Ans ✗ 1. IIT Bombay

✓ 2. IISc Bengaluru

✗ 3. IIM Dhanbad

✗ 4. IISER Bhopal

Q.94 Which of the following north-eastern states reported the highest literacy rate according to the Census of India 2011?

Ans ✗ 1. Meghalaya

✓ 2. Mizoram

✗ 3. Assam

✗ 4. Manipur

Q.95 Manohar Lal Khattar, who resigned in March 2024, was the Chief Minister of which of the following states of India?

Ans ✗ 1. Chhattisgarh

✗ 2. Jharkhand

✓ 3. Haryana

✗ 4. Goa

Q.96 Who wrote the book 'Women Freedom Fighters of India'?

Ans ✗ 1. Shashi Tharoor

✗ 2. EB Havell

✓ 3. Sanjay Yadav

✗ 4. Aravind Adiga

Q.97 'Globbatyrnaensis', a species of ginger, was discovered for the first time in September 2024 by scientists from the Indian Institute of Science Education and Research, Bhopal, from which of the following states?

Ans ✗ 1. Uttarakhand

✗ 2. Kerala

✓ 3. Meghalaya

✗ 4. Madhya Pradesh

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Q.98 The world's only multilateral decision-making forum on climate change with almost complete membership of every country in the world, the United Nations Climate Change Conference, COP28, took place at which place from 30 November to 12 December 2023?

Ans ✗ 1. New Delhi

✓ 2. Dubai

✗ 3. Baku

✗ 4. Glasgow

Q.99 Cold sores are painful blisters caused by infection from which virus?

Ans ✗ 1. HPV

✗ 2. WNV

✗ 3. H7N9

✓ 4. HSV-1

Q.100 What is the main focus of the 'Kuposhan Mukt Jharkhand' event chaired by Annpurna Devi?

Ans ✓ 1. Improving nutritional standards and child welfare

✗ 2. Increasing child participation in politics

✗ 3. Improving child education for their welfare

✗ 4. Improving women standards

Q.101 In which of the following years was the first round table conference held?

Ans ✗ 1. 1932

✗ 2. 1928

✓ 3. 1930

✗ 4. 1933

Q.102 Where was the inaugural edition of the India-Saudi Arabia Joint Military Exercise 'SADA TANSEEQ' conducted in 2024?

Ans ✗ 1. Jaipur, Rajasthan

✗ 2. Jaisalmer, Rajasthan

✗ 3. Suratgarh, Rajasthan

✓ 4. Mahajan, Rajasthan

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Q.103 Which of the following is the 'Utility of a commodity'?

Ans ✔ 1. It is the want of satisfying the capacity of a commodity.

✗ 2. It is the desire to satisfy the capacity of a commodity.

✗ 3. It is the want of dissatisfying the capacity of a commodity.

✗ 4. It is the desire of dissatisfying the capacity of a commodity.

Q.104 Which of the following is the standard unit of energy in the International System of Units (SI)?

Ans ✔ 1. Joule (J)

✗ 2. Pascal (Pa)

✗ 3. Watt (W)

✗ 4. Newton (N)

Q.105 The Barak River, a headstream of Meghna, rises in which of the following states?

Ans ✔ 1. Manipur

✗ 2. Arunachal Pradesh

✗ 3. Assam

✗ 4. West Bengal

Q.106 The World bank comprises of _____.

Ans ✗ 1. IMF

✗ 2. WTO

✗ 3. GATT

✔ 4. IBRD

Q.107 _____ is a quantitative process of change of scale and size, which can be measured and aided by ethics and norms.

Ans ✗ 1. Progress

✗ 2. Evolution

✔ 3. Development

✗ 4. Growth

Q.108 The Kharif season in India is associated with the cultivation of which of the following crops?

Ans
- ✗ 1. Gram
- ✗ 2. Wheat
- ✗ 3. Barley
- ✓ 4. Rice

Q.109 How many indicators were used to calculate the recently published India's National MPI report?

Ans
- ✓ 1. 12
- ✗ 2. 10
- ✗ 3. 14
- ✗ 4. 16

Q.110 'Kathasaritasagara' is a collection of stories composed in _____.

Ans
- ✓ 1. Sanskrit
- ✗ 2. Telugu
- ✗ 3. Tamil
- ✗ 4. Prakrit

Q.111 Which Amendment has made the Right to Education a Fundamental Right?

Ans
- ✓ 1. 86th Amendment
- ✗ 2. 92nd Amendment
- ✗ 3. 75th Amendment
- ✗ 4. 90th Amendment

Q.112 How has the advancement of technology impacted employment trends in India?

Ans
- ✗ 1. Technology has uniformly reduced employment opportunities across all sectors
- ✗ 2. Only manual and low-skill jobs have been affected by technological advancements
- ✗ 3. Technological advancement has had no significant impact on employment trends
- ✓ 4. It has created new job opportunities, especially in the IT and service sectors, while also displacing traditional jobs

Q.113 During Delhi Sultanate period who brought capital back from Lahore to Delhi?

Ans
- ✓ 1. Iltutmish
- ✗ 2. Qutbuddin Aibak
- ✗ 3. Chenghiz Khan
- ✗ 4. Nasiruddin Qubacha

Q.114 Who among the following was elected unopposed as the Deputy Speaker of the 8th Arunachal Pradesh Legislative Assembly?

Ans ✗ 1. Sotai Kri

✔ 2. Kardo Nyigyor

✗ 3. Tapir Gao

✗ 4. Omak Nitik

Q.115 Who among the following was the first Secretary of Bethune School established at Calcutta (now Kolkata)?

Ans ✗ 1. Debendranath Tagore

✗ 2. Raja Ram Mohan Roy

✔ 3. Ishwar Chandra Vidyasagar

✗ 4. Bal Gangadhar Tilak

Q.116 What was the name of India's first rocket with a single piece 3D printed engine launched from Sriharikota in May 2024?

Ans ✗ 1. Dhanush

✗ 2. Dhara

✔ 3. Agnibaan

✗ 4. Pushpak

Q.117 Name the scientist who developed the process of deciphering the genetic code in the living cells in the 1960s.

Ans ✗ 1. Archibald Garrod

✔ 2. Marshall Nirenberg

✗ 3. Wilhelm Johannsen

✗ 4. Erich von Tschermak

Q.118 Which of the following statements is FALSE?

Ans ✗ 1. According to Article 74, the President will act only on the advice of the Council of Ministers.

✗ 2. According to Article 77, all executive actions of the Government of India shall be exeucted in the name of the President.

✔ 3. Article 76 provides for a Council of Ministers headed by the Prime Minister.

✗ 4. All members of the Council of Ministers hold office during the pleasure of the President.

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Q.119 Indian cricketer Virat Kohli equalled Sachin Tendulkar's record of the most ODI centuries with his 49th hundred against which country in November 2023?

Ans ✗ 1. England

✗ 2. Australia

✗ 3. Pakistan

✓ 4. South Africa

Q.120 Which writ is issued against executive and inferior judicial bodies to perform their duties which they have failed to perform?

Ans ✓ 1. Mandamus

✗ 2. Prohibition

✗ 3. Certiorari

✗ 4. Quo Warranto

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Section : **Arithmetic**

Q.1 A number when increased by 50 %', gives 3960. The number is:

Ans   ✗ 1. 1320

✗ 2. 5280

✔ 3. 2640

✗ 4. 7920

Q.2 The smallest natural number which is divisible by 12, 8, 75 and 15 is:

Ans   ✔ 1. 600

✗ 2. 562

✗ 3. 690

✗ 4. 610

Q.3 If the volume of cube is 4096 m³, then find the total surface area of cube in m².

Ans   ✔ 1. 1536

✗ 2. 1548

✗ 3. 1558

✗ 4. 1514

Q.4 Find the least value of 'x' so that the 8-digit number 85264x16 is divisible by 8.

Ans   ✗ 1. 5

✔ 2. 2

✗ 3. 3

✗ 4. 1

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Q.5 Which of the following ratio is smallest?

Ans ✗ 1. 29 : 31

✓ 2. 21 : 52

✗ 3. 24 : 59

✗ 4. 28 : 42

Q.6 What will be the remainder when 111^{2024} is divided by 112?

Ans ✗ 1. 4

✗ 2. 2

✓ 3. 1

✗ 4. 3

Q.7 A bank offers 9.4% compound interest per annum calculated on a half-yearly basis. A customer deposits ₹8716 each on 1 January and 1 July of a year. At the end of the year, the amount he would have gained by way of interest is _____. [Give your answer correct to 2 decimal places.]

Ans ✗ 1. ₹1256.82

✗ 2. ₹1238.89

✗ 3. ₹1228.2

✓ 4. ₹1248.2

Q.8 Isha and Anshu together invested ₹49700 in a business. At the end of the year, out of a total profit of ₹8800, Isha's share was ₹2200. What was the investment of Anshu?

Ans ✗ 1. ₹37025

✓ 2. ₹37275

✗ 3. ₹37400

✗ 4. ₹36760

Q.9

Find the value of $50^{-3} \div 50^{15} \times 50^{-18}$

Ans   ✗ 1. 50^{-27}

✗ 2. 50^{-37}

✗ 3. 50^{-30}

✓ 4. 50^{-36}

Q.10

Find the value of $30^{-5} \div 30^{17} \times 30^{-16}$

Ans   ✗ 1. 30^{-44}

✗ 2. 30^{-48}

✓ 3. 30^{-38}

✗ 4. 30^{-46}

Q.11 How much sugar at ₹14.5 a kg should be added to 22 kg of tea at ₹25 a kg, so that the mixture be worth ₹18 a kg?

Ans   ✗ 1. 40 kg

✓ 2. 44 kg

✗ 3. 46 kg

✗ 4. 42 kg

Q.12 Ravi has 1458 litres of a mixture of milk and water. The ratio of milk to water in this mixture is 8 : 1. How much water (in litres) should Ravi add into the mixture so that the ratio of milk and water becomes 6 : 5?

Ans   ✗ 1. 909

✗ 2. 927

✓ 3. 918

✗ 4. 900

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Q.13 Anmol completes his journey in 16 hours. He covers half the distance at 72 km/h and the rest at 56 km/h. What is the length of the journey (in Km)?

Ans ✗ 1. 999

✗ 2. 1000

✔ 3. 1008

✗ 4. 1013

Q.14 A 185 m long train crosses a man walking at a speed of 9.9 km/h in the opposite direction in 6 seconds. What is the speed (in km/h) of the train?

Ans ✔ 1. 101.09

✗ 2. 104.2

✗ 3. 97.6

✗ 4. 106.2

Q.15 If $19 \times 8 \times 940 \div \sqrt{2209} = y + 557$, then find the value of y.

Ans ✗ 1. 2481

✔ 2. 2483

✗ 3. 2488

✗ 4. 2479

Q.16 The smallest 1-digit number to be added to the 6-digit number 806039 so that it is completely divisible by 11 is:

Ans ✗ 1. 3

✗ 2. 4

✔ 3. 8

✗ 4. 6

Q.17 The expenditure of Sudha is 200% more than her savings. If her expenditure decreases by 6% and savings increase by 26%, then by what percent does her income increase?

Ans ✗ 1. 0.06

✔ 2. 0.02

✗ 3. 0.07

✗ 4. 0.05

Q.18 The smallest 1-digit number to be added to the 6-digit number 874146 so that it is completely divisible by 11 is:

Ans ✗ 1. 5

✗ 2. 3

✗ 3. 1

✓ 4. 2

Q.19 The ratio of numbers of girls and boys participating in sports of a school is 1 : 5. If the number of girls is 245, determine the number of boys participating in the sports.

Ans ✓ 1. 1225

✗ 2. 1200

✗ 3. 1255

✗ 4. 1245

Q.20 During sale, Raghav bought a notebook marked for ₹28 at 25% discount and a pen marked for ₹75 at 16% discount. How much (in ₹) did he save due to sale?

Ans ✓ 1. 19

✗ 2. 21

✗ 3. 18

✗ 4. 17

Q.21 The average of eight numbers is 19. The average of five of these numbers is 20. The average of the remaining three numbers is

Ans ✗ 1. 16.33

✗ 2. 19.33

✓ 3. 17.33

✗ 4. 18.33

Q.22 Given that $59^{0.46} = x$, $59^{0.21} = y$ and $x^z = y^5$, then the value of z is close to:

Ans ✗ 1. 0.17

✗ 2. 4.55

✓ 3. 2.28

✗ 4. 4.83

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Q.23 Find the surface area of a sphere whose diameter is equal to 92 cm.

Ans ✓ 1. 8464 cm²

✗ 2. 8074 cm²

✗ 3. 9329 cm²

✗ 4. 9073 cm²

Q.24 Find the simple interest (in ₹) on ₹2000 at 6.25% per annum rate of interest for the period from 11 February 2023 to 25 April 2023

Ans ✗ 1. 23

✗ 2. 24

✗ 3. 26

✓ 4. 25

Q.25 The selling price of 50 books is equal to the cost price of 21 books. Find the loss or gain percentage.

Ans ✓ 1. 58 % loss

✗ 2. $\frac{100}{29}$% gain

✗ 3. $\frac{100}{29}$% loss

✗ 4. 58 % gain

Q.26 Nidhi invested a sum of ₹9600 at 15% per annum compound interest, componded annually. If she received an amount of ₹12696 after n years, the value of n is:

Ans ✓ 1. 2

✗ 2. 2.5

✗ 3. 1

✗ 4. 3

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Q.27 The pie-chart shows the sales of an item on different days of a week. Study the given pie-chart and answer the question that follows.

Sales

■ Sunday ■ Monday ■ Tuesday ■ Wednesday ■ Thursday ■ Friday ■ Saturday
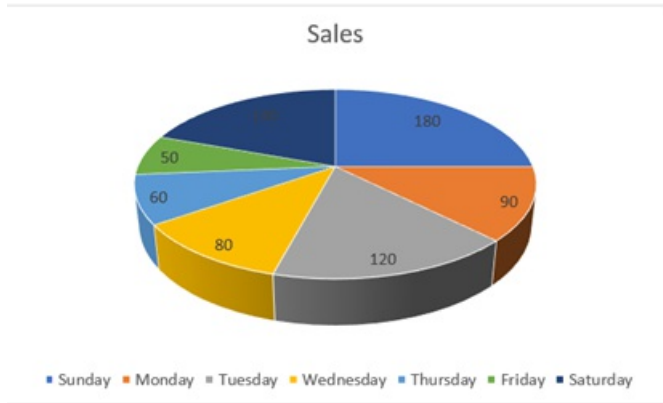
The angle made at the centre by the sales on Wednesday is (in degrees):

Ans ✗ 1. 30

✗ 2. 60

✗ 3. 50

✓ 4. 40

Q.28 Raghu scored 34, 43, 21, and 28 marks in four consecutive slip tests conducted in his school. How much should he score in the fifth slip test in order to have an average score of 30 marks?

Ans ✓ 1. 24

✗ 2. 14

✗ 3. 22

✗ 4. 20

Q.29 My kid brother is playing with a kite whose area is 15 sq cm and the sum of its diagonals is 11 cm. Find its diagonals in centimetres.

Ans ✗ 1. 5.25, 5.75

✗ 2. 7, 4

✗ 3. 5.5, 5.5

✓ 4. 6, 5

Q.30 Two trains of equal length are running on parallel lines in the same direction at speeds of 101 km/h and 71 km/h. The faster train passes the slower train in 18 seconds. The length of each train is:

Ans ✗ 1. 88 meters

✗ 2. 83 meters

✗ 3. 72 meters

✓ 4. 75 meters

Q.31 The marked price of an article is ₹492. The shopkeeper offers a discount of 39% on the purchase of the article. Thereby, he makes a profit of 22%. The cost price of the article is:

Ans ✓ 1. ₹246

✗ 2. ₹247

✗ 3. ₹220

✗ 4. ₹259

Q.32 A dishonest vendor claims that he is selling goods at their cost price. But he is weighing 652 grams for 1000 grams. What is his profit percentage (rounded off to 2 decimal places)?

Ans ✗ 1. 56.69

✔ 2. 53.37

✗ 3. 53.46

✗ 4. 51.75

Q.33 Two trains of equal length are running on parallel lines in the same direction at speeds of 76 km/h and 67 km/h. The faster train passes the slower train in 56 seconds. The length of each train is:

Ans ✗ 1. 80 meters

✗ 2. 74 meters

✔ 3. 70 meters

✗ 4. 79 meters

Q.34 The value of

$$\frac{2}{8} + \frac{3}{8} + \frac{3}{16} + \frac{4}{8} - 4 =$$

Ans ✗ 1. $-\dfrac{50}{16}$

✗ 2. $-\dfrac{44}{16}$

✗ 3. $-\dfrac{33}{16}$

✔ 4. $-\dfrac{43}{16}$

Q.35 The average of 7 numbers is 43. If each number is decreased by 7, what will the new average be?

Ans ✗ 1. 43

✔ 2. 36

✗ 3. 7

✗ 4. 29

Section : **General Intelligence and Reasoning**

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Q.36 In a certain code language, 'explore new opportunities' is written as 'ab tb mb' and 'opportunities await you' is coded as 'tb kb cb'. How is 'opportunities' coded in the given language?

Ans ✗ 1. mb

✔ 2. tb

✗ 3. kb

✗ 4. ab

Q.37 Select the numbers from among the given options that can replace the question marks (?) in the following series.

81 84 90 99 111 ? 144 ?

Ans ✗ 1. 124, 170

✔ 2. 126, 165

✗ 3. 125, 171

✗ 4. 127, 164

Q.38 Identify the figure given in the options which when put in place of the question mark (?) will logically complete the series.

Ans 1.
✗

2.
✔

3.
✗

4.
✗
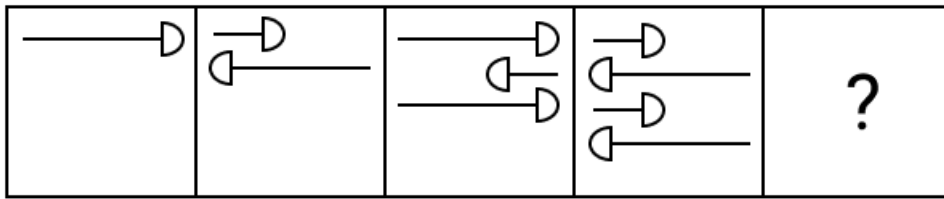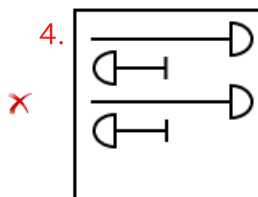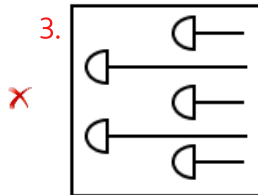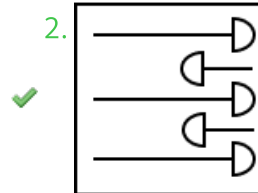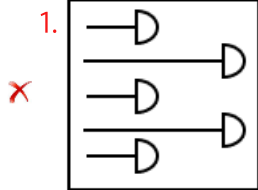
Q.39 All 59 people are standing in a row facing north. Wang is 2$^{\text{d}}$ from the left end while Chow is 1$^{\text{st}}$ from the right end. How many people are there between Wang and Chow?

Ans ✗ 1. 58

✗ 2. 43

✗ 3. 66

✓ 4. 56

Q.40 If 1 is added to each odd digit and 2 is subtracted from each even digit in the number 1675843, what will be difference between the highest and lowest digits in the new number thus formed?

Ans ✗ 1. 8

✗ 2. 2

✓ 3. 6

✗ 4. 4

Q.41 Based on the English alphabetical order, three of the following four letter-cluster pairs are alike in a certain way and thus form a group. Which is the letter-cluster pair that DOES NOT belong to that group?

(Note: The odd man out is not based on the number of consonants/vowels or their position in the letter-cluster.)

Ans ✓ 1. KM-PS

✗ 2. OQ-TV

✗ 3. GI-LN

✗ 4. CE-HJ

Q.42 Select the correct mirror image of the given figure when the mirror is placed at line MN as shown.

M

K L P 3 & 7

N

Ans ✗ 1. ⊤ & Ɛ K L P

✔ 2. ⊤ & Ɛ 9 ⅃ Ʞ

✗ 3. ∠ & 9 ⅃ Ʞ

✗ 4. ⊤ b 3 & ⅃ Ʞ
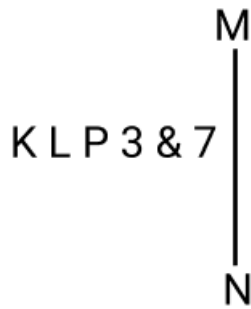
Q.43 G, H, I, J, M, N and O are sitting around a square table facing the centre of the table.

Only G sits to the left of J. Only four people sit between G and H. Only O sits between N and I, and N is not an immediate neighbour of H.

Who sits at the extreme right of the line?

Ans ✗ 1. O

✗ 2. G

✗ 3. I

✔ 4. M

Q.44 Three of the following four letter-cluster pairs are alike in a certain way and thus form a group. Which is the letter-cluster pair that does NOT belong to that group?

(Note: The odd one out is not based on the number of consonants/vowels or their positions in the letter-cluster.)

Ans ✗ 1. OT - LP

✗ 2. LQ - IM

✔ 3. FK - CH

✗ 4. IN - FJ

Q.45 Two sets of numbers are given below. In each set of numbers, certain mathematical operation(s) on the first number result(s) in the second number. Similarly, certain mathematical operation(s) on the second number result(s) in the third number and so on. Which of the given options follows the same set of operations as in the given sets?

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 – Operations on 13 such as adding/subtracting/multiplying to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

13 - 26 - 30 - 22; 17 - 34 - 38 - 30

Ans ✗ 1. 21 - 42 - 56 - 38

✔ 2. 9 - 18 - 22 - 14

✗ 3. 20 - 60 - 64 - 46

✗ 4. 25 - 50 - 68 - 60

Q.46 A - B means 'A is the son of B',

A $ B means 'A is the sister of B',

A @ B means 'A is the daughter of B' and

A * B means 'A is the father of B'.

Based on the above information, which of the following means that W is the sister's son of S?

Ans ✔ 1. W - E @ A * K $ S

✗ 2. W * E - A $ K @ S

✗ 3. W $ E * A - K @ S

✗ 4. W @ E - A $ K * S

Q.47 Qars starts from Point A and drives 13 km towards north. He then takes a right turn, drives 11 km, turns right and drives 25 km. He then takes a right turn and drives 19 km. He takes a final right turn, drives 12 km and stops at Point P. How far (the shortest distance) and towards which direction should he drive in order to reach Point A again? (All turns are 90º turns only, unless specified.)

Ans ✗ 1. 7 km towards east

✗ 2. 6 km towards west

✔ 3. 8 km towards east

✗ 4. 9 km towards west

Q.48 Four of the following five figures are alike in a certain way and thus form a group. Which figure DOES NOT belong to that group?

(A)   (B)   (C)   (D)   (E)
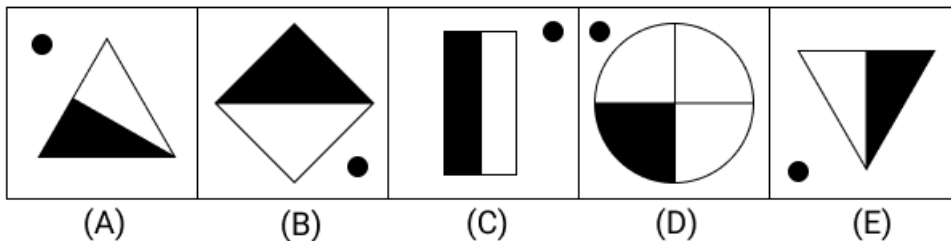
Ans ✗ 1. A

✗ 2. B

✗ 3. C

✔ 4. D

Q.49 In the following triads, each group of letters is related to the subsequent one following a certain logic. Select from the given options, the one that follows the same logic.

WAYS - WSAY - SWYA

FERN - FNER - NFRE

Ans ✗ 1. BONE - BEON - OBNE

✔ 2. GRAM - GMRA - MGAR

✗ 3. BASE - ABSE - EASB

✗ 4. SOLD - SLOD - DLOS

Q.50 N, D, L, M, O, B and T have different heights. D is shorter than only two people. There are only three people who have heights between D and B. There are only two people who are taller than O but shorter than N. Only M is taller than N. T is taller than L. Who is the second shortest?

Ans ✅ 1. L

✖ 2. N

✖ 3. M

✖ 4. T

Q.51 I, J, K, L, M, N and W are sitting around a circular table facing the centre of the table. Only one person sits between L and J, when counted from the right of L. Only one person sits between J and N. Only one person sits between L and W. Only two people sit between M and N. Only one person sits between K and W. How many people sit between I and J, when counted from the right of I?

Ans ✅ 1. Two

✖ 2. Four

✖ 3. One

✖ 4. Three

Q.52 Refer to the following letter, number and symbol series and answer the question that follows. Counting to be done from left to right only.
(Left) © K % O $ 3 L © X # # 8 Z R © F 1 N 8 % Q N (Right)
If all the letters are dropped from the series, which of the following will be fifth from the left?

Ans ✖ 1. 8

✖ 2. 3

✅ 3. ©

✖ 4. #

Q.53 If 1 is added to each even digit and 2 is subtracted from each odd digit in the number 3256378, what will be the sum of the digits which are second from the left and second from the right in the new number thus formed?

Ans   ✗ 1. 5

     ✗ 2. 4

     ✓ 3. 8

     ✗ 4. 7

Q.54 B is the son of A. C is the wife of B. D is the daughter of C. E is the son of B. How is E related to A?

Ans   ✗ 1. Daughter

     ✓ 2. Son's son

     ✗ 3. Brother's son

     ✗ 4. Brother

Q.55 Which of the following letter-number clusters will replace the question mark (?) in the given series to make it logically complete?

YAC37, HJL46, QSU55, ZBD64, ?

Ans   ✗ 1. IKV73

     ✗ 2. JYV73

     ✗ 3. IYO73

     ✓ 4. IKM73

Q.56 This question is based on the following words.
BUS THE YOU DEN
In each of the words, each vowel is changed to the letter following it in the English alphabetical order and each consonant is changed to the letter preceding it in the English alphabetical order. In how many letter-clusters thus formed, will no vowel appear?

Ans   ✗ 1. 2

     ✗ 2. 1

     ✓ 3. 3

     ✗ 4. 4

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Q.57 Aman starts from Point A and drives 6 km towards West. He then takes a left turn, drives 3 km, turns right and drives 5 km. He then takes a right turn and drives 3 km. He takes a final right turn, drives 4 km and stops at Point B. How far (shortest distance) and towards which direction should he drive in order to reach Point A again? (All turns are 90 degree turns only unless specified.)

Ans ✔ 1. 7 km towards East

✗ 2. 5 km towards North

✗ 3. 5 km towards West

✗ 4. 7 km towards West

Q.58 Each of P, Q, R, S, T, U and V, has an exam on a different day of a week starting from Monday and ending on Sunday of the same week. R has an exam on Thursday. Exactly 4 people have their exam between U and Q, neither of whom has an exam on Sunday. P has an exam immediately before S. V does not have an exam on Friday. U does not have an exam after S. How many people have an exam after Q?

Ans ✗ 1. 4

✗ 2. 3

✔ 3. 1

✗ 4. 2

Q.59 Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.

Statements:

All tables are desks.

All desks are boards.

Some tables are chairs.

Conclusions:

(I): Some desks are chairs.

(II): Some boards are chairs.

Ans ✗ 1. Only conclusion (I) follows.

✓ 2. Both conclusions (I) and (II) follow.

✗ 3. Only conclusion (II) follows.

✗ 4. Neither conclusion (I) nor (II) follows.

Q.60 Based on the English alphabetical order, three of the following four letter-clusters are alike in a certain way and thus form a group. Which letter-cluster DOES NOT belong to that group?

(Note: The odd man out is not based on the number of consonants/vowels or their position in the letter-cluster.)

Ans ✗ 1. EAG

✗ 2. KGM

✗ 3. NJP

✓ 4. HCI

Q.61 Each of the digits in the number 6147385 is arranged in ascending order from left to right. The position(s) of how many digits will remain unchanged as compared to that in the original number?

Ans ✗ 1. None

✗ 2. Three

✓ 3. One

✗ 4. Two

Q.62 Select the set in which the numbers are related in the same way as are the numbers of the following sets.

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 – Operations on 13 such as adding / subtracting /multiplying to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

(34, 108, 7)

(33, 121, 23)

Ans ✗ 1. (12, 62, 23)

✗ 2. (36, 135, 24)

✓ 3. (48, 147, 4)

✗ 4. (41, 131, 5)

Q.63 This question is based on the five, three-digit numbers given below.

(Left) 672 745 462 378 417 (Right)

(Example- 697 – First digit = 6, second digit = 9 and third digit = 7)

NOTE - All operations to be done from left to right.

What will be the resultant if the second digit of the highest number is multiplied with the second digit of the lowest number?

Ans ✗ 1. 29

✗ 2. 27

✗ 3. 25

✓ 4. 28

Q.64 What should come in place of the question mark (?) in the given series based on the English alphabetical order?

QTV ORT MPR KNP ?

Ans ✓ 1. ILN

✗ 2. IKN

✗ 3. ILM

✗ 4. IKM

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Q.65 In a certain code language, 'dreams come true' is coded as 'mp tb ko' and 'come on time' is coded as 'uk ko jb'. How is 'come' coded in the given language?

Ans ✗ 1. uk

✔ 2. ko

✗ 3. tb

✗ 4. jb

Q.66 In a certain code language, 'FAIR' is coded as '3716' and 'ARID' is coded as '3169'. What is the code for 'D' in the given code language?

Ans ✗ 1. 3

✗ 2. 6

✗ 3. 1

✔ 4. 9

Q.67 Each of A, B, C, D, P, Q and R has an exam on a different day of a week starting from Monday and ending on Sunday of the same week. No one has exam before D. Only three people have exam between D and Q. Only one person has exam between Q and R. B has exam on Wednesday. A has exam on one of the days after C but on one of the days before P. On which day of the week does A have exam?

Ans ✗ 1. Monday

✔ 2. Thursday

✗ 3. Tuesday

✗ 4. Saturday

Q.68 Each vowel in the word FORMATS is changed to the letter immediately following it in the English alphabetical order and each consonant is changed to the letter immediately preceding it in the English alphabetical order. How many vowels are there in the group of letters thus formed?

Ans ✗ 1. 0

✗ 2. 3

✗ 3. 1

✔ 4. 2

Q.69 Select the triad that follows the same pattern as the one followed by the two triads given below. Both triads follow the same pattern.

FA-HD-KN

ID-KG-NQ

Ans ✗ 1. KG-NJ-QS

✗ 2. KG-NI-QS

✗ 3. LG-NJ-QS

✓ 4. LG-NJ-QT

Q.70 Which of the following letter-clusters should replace # and % so that the pattern and relationship followed between the letter-cluster pair on the left side of :: is the same as that on the right side of ::?

: CJP :: NUA : %

Ans ✓ 1. # = YFL; % = RYE

✗ 2. # = YFL; % = RYF

✗ 3. # = ZFL; % = RYE

✗ 4. # = YFL; % = SYE

Section : General Awareness

Q.71 The members of the constituent assembly were elected by _____.

Ans ✗ 1. universal franchise

✗ 2. the British government

✗ 3. the eminent leaders of congress party

✓ 4. provincial legislatures

Q.72 Who among the following had the shortest tenure as the President of India?

Ans ✗ 1. Jawaharlal Nehru

✗ 2. Lal Bahadur Shastri

✓ 3. Zakir Husain

✗ 4. Rajendra Prasad

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Q.73 Which of the following statements is correct regarding the Andaman and Nicobar Islands?

Ans ✗ 1. The Andaman and Nicobar Islands have a temperate climate with sparse forest cover.

✗ 2. The Andaman and Nicobar Islands are entirely made up of coral formations.

✗ 3. The Andaman and Nicobar Islands lie far from the equator and experience minimal rainfall.

✓ 4. The Andaman and Nicobar Islands are strategically important and have great diversity in flora and fauna.

Q.74 Which of the following constitutional bodies is responsible for ensuring Free and Fair Elections?

Ans ✗ 1. President of India

✗ 2. Parliament of India

✗ 3. Supreme Court of India

✓ 4. Election Commission of India

Q.75 A saccharimeter is a type of _____.

Ans ✓ 1. polarimeter

✗ 2. diffractometer

✗ 3. pressure gauge

✗ 4. interferometer

Q.76 Name the viral infection that is also known as 'Shingles' and causes painful rashes or blisters on the skin.

Ans ✗ 1. Herpes Simplex

✗ 2. Herpes Epstein-Barr

✗ 3. Herpes Cytomegalo

✓ 4. Herpes Zoster

Q.77 Reserpine, an indole alkaloid drug used to reduce high blood pressure, is obtained from_____.

Ans ✗ 1. papaver somniferum

✗ 2. digitalis purpurea

✗ 3. cinchona officinarum

✔ 4. rauvolfia serpentina

Q.78 The angle between the vector A = 3i + 6j − 2k and B = 4i − j + 3k is:

Ans ✗ 1. 60°

✗ 2. 45°

✔ 3. 90°

✗ 4. 30°

Q.79 The Indian Navy's trilateral exercise known as 'IMT TRILAT' was held jointly with:

Ans ✗ 1. Egypt and Zimbabwe

✗ 2. Sudan and Ethiopia

✔ 3. Mozambique and Tanzania

✗ 4. Nigeria and Uganda

Q.80 To which Gharana did the renowned singer Girija Devi, known for her 'Thumri' renditions, belong?

Ans ✗ 1. Bhendi Bazaar Gharana

✔ 2. Benaras Gharana

✗ 3. Jaipur Gharana

✗ 4. Indore Gharana

Q.81 Indian para-athlete Sumit Antil won a gold medal in which event at the Paris 2024 Paralympic Games?

Ans ✔ 1. Men's Javelin Throw

✗ 2. Men's Shot Put

✗ 3. Men's Club Throw

✗ 4. Men's High Jump

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Q.82 Which of the following falls in an area of low rainfall?

Ans ✗ 1. Tamil Nadu

✗ 2. Meghalaya

✓ 3. Rajasthan

✗ 4. Bihar

Q.83 In which of the following years was GATT established?

Ans ✗ 1. 1946

✓ 2. 1948

✗ 3. 1949

✗ 4. 1947

Q.84 Pallavi, Anupallavi and Mukthayi-Svara, collectively known as Purvanga, belong to which Carnatic music genre?

Ans ✗ 1. Gitam

✓ 2. Varnam

✗ 3. Suladi

✗ 4. Javali

Q.85 Excessive production of which of the following hormones in the body causes the Cushing's syndrome, leading to weight gain and thinning of the skin?

Ans ✗ 1. Erythropoietin

✗ 2. Vasopressin

✗ 3. Melatonin

✓ 4. Cortisol

Q.86 The Mumbai High Field (previously Bombay High Field) discovered by the Russian and Indian team from the seismic exploration vessel Academic Arkhangelsky in February 1974, commenced production in which year?

Ans ✓ 1. 1976

✗ 2. 1981

✗ 3. 1975

✗ 4. 1978

Q.87 What is the primary goal of fiscal consolidation?

Ans ✗ 1. Reducing inflation

✔ 2. Reducing Government debt

✗ 3. Stimulating economic growth

✗ 4. Increasing consumer expenditure

Q.88 Which edition of the World Future Energy Summit was held in Abu Dhabi in April 2024?

Ans ✗ 1. 14th

✗ 2. 12th

✔ 3. 16th

✗ 4. 20th

Q.89 Article 19(1)(a) of the Indian Constitution refers to _____.

Ans ✔ 1. freedom of speech and expression

✗ 2. right to equality

✗ 3. right against exploitation

✗ 4. cultural educational rights

Q.90 Which of the following states have a higher percentage of multi-dimensionally poor?

Ans ✗ 1. Jharkhand

✗ 2. Uttar Pradesh

✗ 3. Madhya Pradesh

✔ 4. Bihar

Q.91 Bindusara ruled between which of the following periods?

Ans ✗ 1. 295 B.C.E. to 270 B.C.E.

✔ 2. 297 B.C.E. to 273 B.C.E.

✗ 3. 293 B.C.E. to 271 B.C.E.

✗ 4. 299 B.C.E. to 275 B.C.E.

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Q.92 Researchers at IIT Bombay developed an instrument named GolDN for mechanically recycling waste plastic polymers through _____.

Ans ✗ 1. pyrolysis

✗ 2. compression

✓ 3. melt mixing

✗ 4. shredding

Q.93 The _____ has appellate jurisdiction on all subordinate courts in the district.

Ans ✗ 1. Vice President of India

✗ 2. Prime Minister of India

✗ 3. President of India

✓ 4. District Court

Q.94 Which of the following places was made the capital of the Rashtrakutas by Dantidurga?

Ans ✓ 1. Manyakheta

✗ 2. Kannauj

✗ 3. Pataliputra

✗ 4. Kanchi

Q.95 Which of the following parts of the Indian Constitution deals with the Fundamental Duties?

Ans ✓ 1. Part IV A

✗ 2. Part V A

✗ 3. Part III A

✗ 4. Part VI A

Q.96 Which of the following is a significant challenge faced by microfinance institutions in India?

Ans ✗ 1. Lack of interest from rural populations

✓ 2. Regulatory changes impacting operational flexibility

✗ 3. High repayment rates by borrowers

✗ 4. An oversupply of funds from international donors

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Q.97 Which of the following is NOT a Poverty Estimation Committee?

Ans ✗ 1. Tendulkar Committee

✓ 2. Kothari Committee

✗ 3. Alagh Committee

✗ 4. Lakdawala Committee

Q.98 As per the Census 2011, which of the following union territories has the highest literacy rate?

Ans ✗ 1. Delhi

✗ 2. Puducherry

✓ 3. Daman and Diu

✗ 4. Chandigarh

Q.99 Who among the following was appointed as the new Director General of the Geological Survey of India (GSI) in June 2024?

Ans ✗ 1. Sanjay Behari

✓ 2. Asit Saha

✗ 3. Virendra Kumar

✗ 4. L Murugan

Q.100 How many Indian crew were present on oil tanker 'Advantage Sweet' which was seized by Iranian authorities in April 2023 and released in October 2023?

Ans ✗ 1. 20

✗ 2. 26

✓ 3. 23

✗ 4. 16

Q.101 In which year did the Government of India launch the Smart Cities Missio?

Ans ✓ 1. 2015

✗ 2. 2017

✗ 3. 2016

✗ 4. 2018

Q.102 **Match the following correctly.**
Set-I   Set-II
a. Naathmuni   1. Sanak Sampradaya
b. Shankaracharya   2. Sri Vaisnav Sampradaya
c. Raamanuj   3. Advait
d. Nimbark   4. Vishishtadvait

Ans ✓ 1. a - 2, b - 3, c - 4, d - 1,

✗ 2. a - 3, b - 4, c - 1, d - 2

✗ 3. a - 3, b - 4, c - 2, d -1,

✗ 4. a - 4, b - 3, c - 2, d - 1

Q.103 Who among the following founded Gurjara-Pratihara dynasty after winning Kannauj in the tripartite struggle?

Ans ✗ 1. Rampal

✗ 2. Mihira Bhoja

✓ 3. Nagabhata I

✗ 4. Vatsaraja

Q.104 Which of the following indigenous tribes celebrates the Mopin festival?

Ans ✗ 1. Bhagalia tribe

✗ 2. Pawra

✗ 3. Bhil tribe

✓ 4. Galo tribe

Q.105 In which of the following years did Mamata Banerjee found All India Trinamool Congress?

Ans ✗ 1. 2003

✗ 2. 1995

✓ 3. 1998

✗ 4. 2001

Q.106 Diazonium salt is formed by treating primary amine with which Brønsted acid?

Ans ✗ 1. Sulphurous acid

✗ 2. Chlorous acid

✗ 3. Phosphorous acid

✓ 4. Nitrous acid

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Q.107 In January 2015, the Government of India replaced the Planning Commission with:

Ans ✗ 1. NLCIL

     ✗ 2. IDBI

     ✓ 3. NITI Aayog

     ✗ 4. ICICI

Q.108 Which of the following is a Foreign Bank?

Ans ✗ 1. HDFC Bank

     ✗ 2. Axis Bank

     ✗ 3. Canara Bank

     ✓ 4. BNP Paribas

Q.109 Who among the following woman social reformers, who educated at home at Poona and published a book, 'Stripurushtulna'?

Ans ✗ 1. Begum Rokeya Sakhawat Hossain

     ✗ 2. Savitribai Phule

     ✗ 3. Fatima Sheikh

     ✓ 4. Tarabai Shinde

Q.110 In which of the following cities of India was the three-day national horticultural fair-2024 of the Indian Institute of Horticultural Research (IIHR) on the theme 'Nextgen technology led horticulture for sustainable development' organised in March 2024?

Ans ✗ 1. Panaji

     ✗ 2. Hyderabad

     ✗ 3. Shillong

     ✓ 4. Bengaluru

Q.111 What was India's rank in the Corruption Perceptions Index (CPI) for 2023?

Ans ✗ 1. 83

     ✗ 2. 111

     ✗ 3. 121

     ✓ 4. 93

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Q.112 Dinesh K Tripathi became the Chief of _____ in January 2024.

Ans   ✅ 1. Naval Staff

     ❌ 2. Air Force

     ❌ 3. Coast Guard

     ❌ 4. Armed Forces

Q.113 According to the Census 2011, which of the following union territories has the highest population growth?

Ans   ❌ 1. Lakshadweep

     ❌ 2. Delhi

     ❌ 3. Puducherry

     ✅ 4. Daman and Diu

Q.114 Who among the following was associated with 'Ulgulan movement'?

Ans   ❌ 1. Budhu Bhagat

     ✅ 2. Birsa Munda

     ❌ 3. Tilka Manjhi

     ❌ 4. Tirot Sing

Q.115 Jishnu Dev Varma, who was appointed as Governor of Telangana in July 2024, was the Former Deputy Chief Minister of which of the following states of India?

Ans   ✅ 1. Tripura

     ❌ 2. Madhya Pradesh

     ❌ 3. Mizoram

     ❌ 4. Kerala

Q.116 Who is author of the book 'Rays and Ways of Indian Culture'?

Ans   ✅ 1. DP Dubey

     ❌ 2. Gayatri Sinha

     ❌ 3. Jhumpa Lahiri

     ❌ 4. Romila Thapar

Q.117 Which of the following statements about the cardinal features of the political system in India are correct?

1. It is a democratic republic.

2. It has a Parliamentary form of government.

3. The Supreme Power draws its power from the people of India.

4. It provides for a unified authority.

Ans　✗ 1. Only 3 and 4

✓ 2. Only 1, 2 and 3

✗ 3. 1, 2, 3 and 4

✗ 4. Only 1 and 2

Q.118 Which of the following pairs (seasons and months, according to the Indian Calendar) is INCORRECT?

Ans　✗ 1. Sharada : Asvina-Kartika

✗ 2. Varsha : Sravana-Bhadra

✓ 3. Hemanta : Magha-Phalguna

✗ 4. Vasanta : Chaitra-Vaisakha

Q.119 Asia's first pre-clinical network facility was inaugurated in which of the following Indian cities in July 2024?

Ans　✗ 1. Lucknow

✓ 2. Faridabad

✗ 3. Chennai

✗ 4. Bhubaneswar

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Q.120 Which edition of the Khelo India Para Games (KIPG) 2023 was held at New Delhi in December 2023?

Ans   ✗ 1. Fifth

 ✔ 2. Inaugural

 ✗ 3. Sixth

 ✗ 4. Second

2024/12/04-19:27:07

Section : **Arithmetic**

Q.1 If x varies inversely as y^3 - 1 and is equal to 3 when y = 4, find x when y = 6.

Ans ✗ 1. $\dfrac{189}{216}$

✗ 2. $\dfrac{191}{215}$

✓ 3. $\dfrac{189}{215}$

✗ 4. $\dfrac{190}{216}$

Q.2 A person covers certain distance in 6 hours at a speed of 5 km/h and some more distance in 7 hours at a speed of 9 km/h. Find his average speed for the entire distance covered.

Ans ✓ 1. $7\dfrac{2}{13}$

✗ 2. $8\dfrac{2}{13}$

✗ 3. $6\dfrac{2}{13}$

✗ 4. $9\dfrac{2}{13}$

Q.3 Manav's average earning per month in the first three months of a year was ₹7520. In April, his earning was 75% more than the average earning in the first three months. If his average earning per month for the whole year is ₹62334, then what will be Manav's average earning (in ₹) per month from May to December?

Ans ✗ 1. 89034

✗ 2. 89031

✓ 3. 89036

✗ 4. 89039

Q.4 Sakshi invested a sum of ₹2500 at 20% per annum compound interest, componded annually. If she received an amount of ₹4320 after n years, the value of n is:

Ans ✗ 1. 4

✗ 2. 3.5

✗ 3. 2

✓ 4. 3

Q.5 What will be the remainder when $(99^{99} + 99)$ is divisible by 100?

Ans ✗ 1. 97

✗ 2. 99

✗ 3. 96

✓ 4. 98

Q.6 The average of 7 numbers is 51. If each number is increased by 6, what will the new average be?

Ans ✗ 1. 7

✗ 2. 51

✔ 3. 57

✗ 4. 63

Q.7 *The difference between the smallest and the largest fractions among*
$\frac{8}{8}, \frac{6}{6}, \frac{26}{39}, \frac{29}{31}$ *is:*

Ans ✗ 1. $\frac{1}{6}$

✗ 2. $\frac{1}{8}$

✔ 3. $\frac{1}{3}$

✗ 4. $\frac{1}{2}$

Q.8 Simplify the following:
$\frac{2}{7} + \frac{19}{5} - 2.4 + \left(\frac{4.8}{2.4}\right)^2$

Ans ✗ 1. $\frac{101}{35}$

✗ 2. $\frac{131}{35}$

✗ 3. $\frac{119}{35}$

✔ 4. $\frac{199}{35}$

Q.9 Pranjal's average earning per month in the first three months of a year was ₹28744. In April, his earning was 50% more than the average earning in the first three months. If his average earning per month for the whole year is ₹94411, then what will be Pranjal's average earning (in ₹) per month from May to December?

Ans ✗ 1. 125453

✔ 2. 125448

✗ 3. 125446

✗ 4. 125447

Q.10 Find the value of $\left[(54 \div 6) \times \left\{\frac{70}{7} + \frac{38}{6} \times (8 - 2)\right\}\right]$

Ans ✔ 1. 432

✗ 2. 442

✗ 3. 422

✗ 4. 429

Q.11 If the volume of cube is 1728 m³, then find the total surface area of cube in m².

Ans ✗ 1. 910

✗ 2. 861

✔ 3. 864

✗ 4. 901

Q.12 The average of 7 numbers is 53. If each number is increased by 7, what will the new average be?

Ans ✔ 1. 60

✗ 2. 7

✗ 3. 67

✗ 4. 53

Q.13 Three partners invested in a business in the ratio 6:7:3. They invested their capitals for 8 months, 3 months and 10 months, respectively. What was the ratio of their profits?

Ans
✗ 1. 13:7:10

✗ 2. 14:7:10

✓ 3. 16:7:10

✗ 4. 17:7:10

Q.14 The pie-chart shows the sales of an item on different days of a week.

Study the given pie-chart and answer the question that follows.
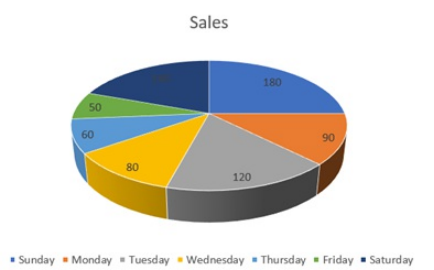
The difference in angles made at the centre by the sales on Tuesday and Saturday is (in degrees):

Ans
✗ 1. 0

✗ 2. 20

✓ 3. 10

✗ 4. 5

Q.15 Given that $17^{0.63}$ = x, $17^{0.04}$ = y and $x^z = y^4$, then the value of z is close to:

Ans
✗ 1. -0.79

✓ 2. 0.25

✗ 3. -0.45

✗ 4. 2.08

Q.16 The surface area of a solid metallic sphere is 5544 cm^2. It is melted and recast into a cone of height 84 cm. Find the diameter of the base of the cone so formed. (Use $\pi = \frac{22}{7}$)

Ans
✗ 1. 46 cm

✗ 2. 44 cm

✓ 3. 42 cm

✗ 4. 40 cm

Q.17 A wholesaler purchases goods worth ₹45,000. The manufacturer offers a trade discount of 15% and an additional scheme discount of 10%. Calculate the net price after both discounts.

Ans
✗ 1. ₹34,255

✗ 2. ₹34,225

✓ 3. ₹34,425

✗ 4. ₹34,455

Q.18 Find the gain percentage, given that Bushra sold her scooter for ₹59112 gaining $\frac{1}{6}$th of the selling price.

Ans
✗ 1. 35%

✗ 2. 5%

✓ 3. 20%

✗ 4. 10%

Q.19 The price of fuel decreases by 20%, 45% and 55% in three successive months, but increases by 50% in the fourth month. What is the percentage increase/decrease in the price of fuel in the fourth month as compared to its original price?

Ans ✗ 1. Increases by 72.35%

✓ 2. Decreases by 70.3%

✗ 3. Decreases by 68.29%

✗ 4. Increases by 67.55%

Q.20 The LCM of 24, 38, 336 and 152 is:

Ans ✗ 1. 6410

✗ 2. 6353

✓ 3. 6384

✗ 4. 6362

Q.21 Parvati and Pari invest in a business in the ratio 5 : 26. If total profit is Rs. 3038, then what is difference between the profit (in Rs.) of Parvati and Pari?

Ans ✗ 1. 2208

✗ 2. 1958

✗ 3. 2008

✓ 4. 2058

Q.22 A train runs at a speed of 147 kmph to cover a distance of 294 km and then at a speed of 133 kmph to cover a distance of 266 km. Find the average speed of the train for the entire distance.

Ans ✗ 1. 152 kmph

✓ 2. 140 kmph

✗ 3. 132 kmph

✗ 4. 187 kmph

Q.23 Two trains of equal length are running on parallel lines in the same direction at speeds of 66 km/h and 39 km/h. The faster train passes the slower train in 24 seconds. The length of each train is:

Ans ✓ 1. 90 meters

✗ 2. 110 meters

✗ 3. 89 meters

✗ 4. 72 meters

Q.24 The population of a village was 130000. It increased by 10% in the first year and increased by 20% in the second year. Its population after two years is _____.

Ans ✗ 1. 156000

✓ 2. 171600

✗ 3. 143000

✗ 4. 169000

Q.25 $\dfrac{(a^1 \times b^4 \times c^5)}{(a^3 \times b^6 \times c^9)}$ in simplified form is:

Ans ✗ 1. $(a^{-5}) \times (b^{-8}) \times (c^2)$

✗ 2. $(a^7) \times (b^{-7}) \times (c^{-6})$

✗ 3. $(a^8) \times (b^5) \times (c^{-1})$

✓ 4. $(a^{-2}) \times (b^{-2}) \times (c^{-4})$

Q.26 Express the following into vulgar fraction.

$0.09\overline{3} + 0.\overline{23}$

Ans ✗ 1. $\dfrac{343}{999}$

✓ 2. $\dfrac{323}{990}$

✗ 3. $\dfrac{343}{990}$

✗ 4. $\dfrac{323}{999}$

Q.27 A sum, when invested at 20% simple interest per annum, amounts to ₹2880 after 4 years. What is the simple interest (in ₹) on the same sum at the same rate in 2 year?

Ans ✗ 1. 320

✗ 2. 2560

✗ 3. 1280

✔ 4. 640

Q.28 The average weight of 6 men is increased by 2 kg when one of them whose weight is 48 kg is replaced by a new man. What is the weight of the new man?

Ans ✗ 1. 58 kg

✔ 2. 60 kg

✗ 3. 54 kg

✗ 4. 56 kg

Q.29 A man walks to a viewpoint and returns to the starting point by his car maintaining constant speed and thus takes a total time of 8 hours 30 minutes. He would have gained 5 hours by driving both ways. How long would it have taken for him to walk both ways with same walking speed?

Ans ✗ 1. 13 hours 45 minutes

✔ 2. 13 hours 15 minutes

✗ 3. 14 hours 30 minutes

✗ 4. 12 hours 15 minutes

Q.30 A bank offers 5.6% compound interest per annum calculated on a half-yearly basis. A customer deposits ₹7346 each on 1 January and 1 July of a year. At the end of the year, the amount he would have gained by way of interest is _____. [Give your answer correct to 2 decimal places.]

Ans ✔ 1. ₹622.82

✗ 2. ₹616.68

✗ 3. ₹626.14

✗ 4. ₹612.82

Q.31 The selling price of 50 books is equal to the cost price of 25 books. Find the loss or gain percentage.

Ans ✗ 1. $\frac{100}{25}\% \, gain$

✗ 2. $\frac{100}{25}\% \, loss$

✔ 3. 50 % loss

✗ 4. 50 % gain

Q.32 The smallest 1-digit number to be added to the 6-digit number 950473 so that it is completely divisible by 11 is:

Ans ✗ 1. 2

✗ 2. 6

✗ 3. 1

✔ 4. 4

Q.33 A man sold an article for ₹420 by first giving a d% discount on its marked price, and then another discount having the same nominal value (in ₹). If the marked price of the article is ₹560, then what is the value of d?

Ans ✗ 1. 18.4

✗ 2. 16.9

✗ 3. 14.5

✔ 4. 12.5

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Q.34 A cylinder of height 13 cm is made from a rectangular sheet of dimension 44 cm × 13 cm, without any cut. What is the total surface area of the cylinder if it is closed from both ends? (Use $\pi = \frac{22}{7}$)

Ans ✓ 1. 880 cm^2

✗ 2. 440 cm^2

✗ 3. 220 cm^2

✗ 4. 1280 cm^2

Q.35 Given that $42^{0.66} = x$, $42^{0.65} = y$ and $x^z = y^4$, then the value of z is close to:

Ans ✗ 1. 4.81

✗ 2. 4.92

✗ 3. 2.04

✓ 4. 3.94

Section : General Intelligence and Reasoning

Q.36 In a certain code language, 'he is late' is coded as 'ab bc cd' and 'is she alive' is coded as 'kj cd mo'. How is 'is' coded in the given language?

Ans ✗ 1. de

✗ 2. ab

✓ 3. cd

✗ 4. mo

Q.37 Select the set in which the numbers are related in the same way as are the numbers of the following sets.
(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 – Operations on 13 such as adding/subtracting/multiplying to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)
(31, 951, 10)
(29, 837, 4)

Ans ✗ 1. (27, 717, 11)

✗ 2. (40, 1593, 6)

✗ 3. (4, 8, 7)

✓ 4. (33, 1069, 20)

Q.38 EHSM is related to AMOR in a certain way based on the English alphabetical order. In the same way, WRKW is related to SWGB. To which of the given options is OBCG related to, following the same logic?

Ans ✗ 1. JFXK

✗ 2. LGZN

✓ 3. KGYL

✗ 4. LHYM

Q.39 Select the set in which the numbers are related in the same way as are the numbers of the following sets.
(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 – Operations on 13 such as adding/subtracting/multiplying to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

(1, –2, 2)
(24, 24, 12)

Ans ✗ 1. (34, 22, 24)

✓ 2. (18, 26, 5)

✗ 3. (24, 6, 22)

✗ 4. (15, 10, 11)

Q.40 In a certain code language,

A < B means 'A is the son of B',

A + B means 'A is the father of B',

A ; B means ' A is the sister of B',

and A = B means 'A is the daughter of B'.

How is P related to E if 'P + O < S ; T = E'?

Ans ✅ 1. Daughter's husband

❌ 2. Sister's son

❌ 3. Mother's sister

❌ 4. Father's sister

Q.41 There are three problem figures, which are alike in a certain way as they share some common feature/s. Select the figure from the answer options, which shares the same features as shared by the three problem figures.
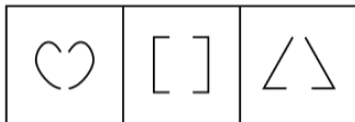
Ans 1. ✔

2. ✗

3. ✗

4. ✗

Q.42 Mr. NOP starts from point A and drives 11 km towards West. He then takes a left turn, drives 12 km, turns left and drives 31 km. He then takes a left turn and drives 27 km. He takes a final left turn, drives 20 km and stops at point P. How far (shortest distance) and towards which direction should he drive in order to reach point A again? (All turns are 90 degrees turns only unless specified.)

Ans ❌ 1. 9 km to the North

❌ 2. 13 km to the West

✅ 3. 15 km to the South

❌ 4. 11 km to the East

Q.43 Manish starts from Point A and drives 13 km towards South. He then takes a left turn, drives 11 km, turns left and drives 15 km. He then takes a left turn and drives 12 km. He takes a final left turn, drives 2 km and stops at Point P. How far (shortest distance) and towards which direction should he drive in order to reach Point A again? (All turns are 90 degree turns only unless specified.)

Ans ❌ 1. 1 km to the west

❌ 2. 2 km to the west

✅ 3. 1 km to the east

❌ 4. 2 km to the east

Q.44 What should come in place of the question mark (?) in the given series based on the English alphabetical order?

HEC JGE LIG NKI ?

Ans ✗ 1. PNL

✗ 2. PNK

✗ 3. PML

✓ 4. PMK

Q.45 Based on the English alphabetical order, three of the following four letter cluster pairs are alike in a certain way and thus form a group. Which is the one that DOES NOT belong to that group?

Ans ✗ 1. JE : HC

✓ 2. OJ : NH

✗ 3. NI : LG

✗ 4. HC : FA

Q.46 In a certain code language, 'CUTE' is coded as '8479' and 'TRIP' is coded as '4351'. What is the code for 'T' in that language?

Ans ✗ 1. 5

✓ 2. 4

✗ 3. 3

✗ 4. 7

Q.47 This question is based on the five, three-digit numbers given below.

(Left) 431 649 324 163 719 (Right)

(Example- 697 – First digit = 6, second digit = 9 and third digit = 7)

NOTE: All operations to be done from left to right.

What will be the resultant if the third digit of the lowest number is added to the second digit of the highest number?

Ans ✗ 1. 5

✗ 2. 7

✗ 3. 6

✓ 4. 4

Q.48 If 2 is added to each even digit and 1 is subtracted from each odd digit in the number 9361457, what will be the sum of the second digit from the left and the third digit from the right in the new number thus formed?

Ans ✗ 1. 10

✗ 2. 12

✓ 3. 8

✗ 4. 6

Q.49 Each of P, Q, R, S, T, U and V has an exam on a different day of a week starting from Monday and ending on Sunday of the same week.
Only two people have exam between R and V. U has an exam on Tuesday. P has an exam on the day immediately before V and immediately after U. S has an exam on Monday. T has an exam on the day before R and the day after Q. Q has an exam on Friday.
Who amongst the following has exam on Wednesday?

Ans ✓ 1. P

✗ 2. T

✗ 3. R

✗ 4. V

Q.50   Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.

M
|
2@45&9
|
N

Ans   ✓ 1. 2@45&9 (mirror)

✗ 2. @5459 (mirror)

✗ 3. 2@469& (mirror)

✗ 4. 2@459& (mirror)
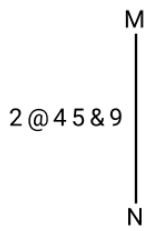
Q.51   A, B, C, D, E, F and G sit around a circular table facing centre. Only E sits between G and C. C sits third to the left of B. A sits to the immediate left of B. D is not an immediate neighbour of C. How many people sit between D and E when counted from the right of E?

Ans   ✗ 1. 1

✓ 2. 4

✗ 3. 3

✗ 4. 2

Q.52   A is the sister of B's daughter C. K is the father of C, and L is the father of K. How is A related to L?

Ans   ✗ 1. Daughter's daughter

✗ 2. Son's son

✓ 3. Son's daughter

✗ 4. Son's wife

Q.53   In a certain code language, 'AWED' is coded as '2764' and 'DATE' is coded as '7625'. What is the code for 'T' in that language?

Ans   ✗ 1. 2

✓ 2. 5

✗ 3. 6

✗ 4. 7

Q.54   Based on the English alphabetical order, three of the following four letter-clusters are alike in a certain way and thus form a group. Which letter-cluster DOES NOT belong to that group?

(Note: The odd one out is not based on the number of consonants/vowels or their position in the letter-cluster.)

Ans   ✗ 1. STV

✓ 2. MOR

✗ 3. BCE

✗ 4. PQS

Q.55   Seven people, E, F, G, H, I, J and U, are sitting around a circular table facing the centre of the table. Only one person sits between H and E when counted from the right of H. Only one person sits between E and U. Only one person sits between H and I. J sits third to the right of I. Only one person sits between F and I. Who sits second to the right of G?

Ans   ✗ 1. I

✗ 2. U

✗ 3. E

✓ 4. J

Q.56 What should come in place of the question mark (?) in the given series based on the English alphabetical order?

DCA EDB FEC GFD ?

Ans ✔1. HGE

✘2. KLJ

✘3. MOL

✘4. MNL

Q.57 Refer to the following letter, symbol series and answer the question that follows. Counting to be done from left to right only.

(Left) = S Y # G F & A % K E * D C & £ U @ N > B + L M (Right)

How many such symbols are there each of which are immediately preceded by a letter and also immediately followed by another symbol?

Ans ✘1. Four

✔2. One

✘3. Two

✘4. Three

Q.58 Each of the digits in the number 8213459 is arranged in ascending order from left to right. The position(s) of how many digits will remain unchanged as compared to that in the original number?

Ans ✘1. Four

✘2. Three

✘3. One

✔4. Two

Q.59 What will come in the place of the question mark '?' in the following equation, if '+' and '−' are interchanged and '×' and '÷' are interchanged?
38 − 8 ÷ 2 + 9 − 12 ÷ 3 − 16 × 2 = ?

Ans ✘1. 107

✘2. 73

✘3. 99

✔4. 89

Q.60 P, Q, R, S and T are all different ages. Q is older than R. R is younger than T but older than P. S is the oldest. Who among them is the youngest?

Ans ✘1. S

✔2. P

✘3. R

✘4. T

Q.61 This question is based on the five, three-digit numbers given below.

(Left) 342 781 619 457 243 (Right)

(Example- 697 – First digit = 6, second digit = 9 and third digit = 7)
(NOTE: All operations to be done from left to right.)

If 2 is added to first digit of every number, in how many numbers will the first digit be exactly divisible by the second digit?

Ans ✘1. 1

✔2. 2

✘3. 4

✘4. 3

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Q.62 Three of the following four letter-cluster pairs are alike in a certain way and thus form a group. Which is the letter-cluster pair that does NOT belong to that group?

(Note: The odd one out is not based on the number of consonants/vowels or their positions in the letter-cluster.)

Ans ✔ 1. FB - ZE

✘ 2. VR - PS

✘ 3. NJ - HK

✘ 4. PL - JM

Q.63 Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.

Statements:

All fans are lights.

All lights are clocks.

Some clocks are bulbs.

Conclusions:

(I): Some fans are bulbs.

(II): Some lights are bulbs.

Ans ✘ 1. Both conclusions (I) and (II) follow.

✔ 2. Neither conclusion (I) nor (II) follows.

✘ 3. Only conclusion (II) follows.

✘ 4. Only conclusion (I) follows.

Q.64 TUV ranked 16th from the top and 19th from the bottom in his class. How many students are there in his class?

Ans ✔ 1. 34

✘ 2. 23

✘ 3. 43

✘ 4. 32

Q.65 Which of the following letter-clusters should replace # and % so that the pattern and relationship followed between the letter-cluster pair on the left side of :: is the same as that on the right side of ::?

: XBE :: HLO : %

Ans ✔ 1. # = TXA; % = LPS

✘ 2. # = UXA; % = LPS

✘ 3. # = TXA; % = LBS

✘ 4. # = TXA; % = LPO

Q.66 Seven boxes, G, H, I, J, K, L and V, are kept one over the other but not necessarily in the same order. H is kept immediately above G. L is kept immediately above J. Only K is kept above V. Only two boxes are kept between G and K. L is not kept at third position from the bottom. How many boxes are kept between I and K?

Ans ✘ 1. Two

✘ 2. One

✔ 3. Three

✘ 4. Four

Q.67 Which numbers should come in place of the question mark (?) in the same sequence to make the series logically complete?

73 82 100 127 ? 208

Ans ✘ 1. 152

✘ 2. 138

✘ 3. 143

✔ 4. 163

Q.68 Refer to the following letter, symbol series and answer the question that follows. Counting to be done from left to right only.

(Left) L T # K % & D R @ $ F $ P Q * ! A Ω E Y % U £ K (Right)

How many such symbols are there each of which are immediately preceded by a letter and also immediately followed by another symbol?

Ans   ✗ 1. None

     ✔ 2. Three

     ✗ 3. Two

     ✗ 4. One

Q.69 Which of the following letter-clusters should replace # and % so that the pattern and relationship followed between the letter-cluster pair on the left side of :: is the same as that on the right side of :: ?

: GEJ :: RPU : %

Ans   ✗ 1. # = POO, % = MLK

     ✔ 2. # = LJO, % = MKP

     ✗ 3. # = PIO, % = MIU

     ✗ 4. # = JHF, % = MKJ

Q.70 Identify the figure given in the options which when put in place of the question mark (?) will logically complete the series.
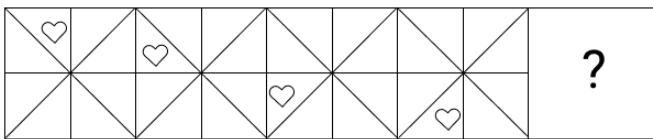
Ans

1.
✗

2.
✔

3.
✗

4.
✗

Section : General Awareness

Q.71 Which of the following statements is NOT correct about 'Globalisation'?

Ans   ✗ 1. It encourages flows of investment, people and information

     ✔ 2. It helps in alleviating problems and increased sustainable development benefits

     ✗ 3. It is the process of interaction and integration among people

     ✗ 4. It helps to create borderless world

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Q.72 Who among the following renowned musicians is celebrated for popularising the unique instrument known as the 'Sarod' and is considered one of the most famous maestros of the Senia Shahjahanpur gharana?

Ans
- ✗ 1. Pandit Ravi Shankar
- ✓ 2. Ustad Amjad Ali Khan
- ✗ 3. Ustad Ali Akbar Khan
- ✗ 4. Ustad Bismillah Khan

Q.73 What was the role of Nayakas under the Amara-Nayaka system of Vijayanagar administration?

Ans
- ✗ 1. Revenue Collector
- ✓ 2. Army Commander
- ✗ 3. Head of the Spies
- ✗ 4. Village Head

Q.74 The Delimitation Commission is appointed by the _____ and works in collaboration with the Election Commission of India.

Ans
- ✓ 1. President of India
- ✗ 2. Chief Justice of India
- ✗ 3. Lok Sabha Speaker
- ✗ 4. Prime Minister of India

Q.75 What is the name of the United Nations specialised agency for Information and Communication Technologies (ICTs), which has released the 5th edition of Global Cybersecurity Index (GCI) in 2024?

Ans
- ✓ 1. International Telecommunication Union
- ✗ 2. World Telecommunication Union
- ✗ 3. United Nations World Communication Union
- ✗ 4. Global Telecommunication Union

Q.76 In August 2023, the Defence Ministry of India decided to switch its operating system from Windows to a locally built OS amid rising trends in cyberthreats. The name of the new OS is _____.

Ans
- ✗ 1. Megh
- ✗ 2. Survekshan
- ✗ 3. Surakshakavach
- ✓ 4. Maya

Q.77 _____ has won the National Award for the best implementation of Pradhan Mantri Fasal Bima Yojana (PMFBY), which is a crop subsidy insurance scheme, for the year 2022-23?

Ans
- ✗ 1. Tamil Nadu
- ✓ 2. Karnataka
- ✗ 3. Punjab
- ✗ 4. Uttar Pradesh

Q.78 Who among the following was the first Indian woman to become the President of Indian National Congress?

Ans
- ✗ 1. Nelli Sengupta
- ✗ 2. Annie Besant
- ✓ 3. Sarojini Naidu
- ✗ 4. Madam Bhikaji Cama

Q.79 In which sport did Indian player Nitesh Kumar win a gold medal at the Paris Paralympic Games 2024?

Ans
- ✓ 1. Badminton
- ✗ 2. Athletics
- ✗ 3. Shooting
- ✗ 4. Archery

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Q.80 The acid present in the cells of our body is _____.

Ans ✗ 1. sulphuric acid

✗ 2. oxalic acid

✓ 3. deoxyribonucleic acid

✗ 4. ribonucleic acid

Q.81 Who among the following wrote the book 'Significance of Vimanam and Gopuram'?

Ans ✗ 1. Niketan Anand Gaur

✗ 2. Romila Thapar

✓ 3. Dr. V Ganapati Sthapati

✗ 4. Sashi Tharoor

Q.82 Which house of the parliament has the most powers in matters of Money bills?

Ans ✗ 1. Vidhan Sabha

✗ 2. Rajya Sabha

✗ 3. Vidhan Parishad

✓ 4. Lok Sabha

Q.83 According to the Indian Meteorological Department (IMD), how many seasons are there in India?

Ans ✗ 1. 3

✗ 2. 7

✓ 3. 4

✗ 4. 6

Q.84 Which of the following is the first stage of karyokinesis of mitosis that follows the S and G2 phases of interphase?

Ans ✗ 1. Metaphase

✗ 2. Telophase

✗ 3. Anaphase

✓ 4. Prophase

Q.85 How many members of Rajya Sabha are nominated by the President of India?

Ans ✗ 1. 10

✗ 2. 14

✓ 3. 12

✗ 4. 08

Q.86 Which of the following is/are food as well as fodder crops grown under semi-arid climatic conditions sown all over India except in eastern and northeastern regions?

Ans ✓ 1. Maize

✗ 2. Areca nut

✗ 3. Pulses

✗ 4. Cotton

Q.87 Which of the following is NOT one of the recent initiatives of the Government of India to generate opportunities of employment?

Ans ✗ 1. Skill India

✗ 2. Make in India

✗ 3. Start Up India

✓ 4. Unicorn India

Q.88 El Nino is a narrow warm current which occasionally appears off the coast of _____.

Ans ✗ 1. Uganda

✗ 2. Australia

✗ 3. Brazil

✔ 4. Peru

Q.89 Match the states in list I with the sex ratios as per Census 2011 in list II.

	State (List-I)		Sex Ratio (as per Census 2011) (List-II)
1.	Uttar Pradesh	a.	931
2.	Bihar	b.	918
3.	Madhya Pradesh	c.	929
4.	Maharashtra	d.	912

Ans ✔ 1. 1-d, 2-b, 3-a, 4-c

✗ 2. 1-b, 2-d, 3-a, 4-c

✗ 3. 1-d, 2-b, 3-c, 4-a

✗ 4. 1-d, 2-a, 3-b, 4-c

Q.90 Which of the following articles deals with the power of the President to make regulations for certain Union territories?

Ans ✗ 1. Article 248

✗ 2. Article 244

✔ 3. Article 240

✗ 4. Article 235

Q.91 Which of the following Fundamental Duties was added by the 42nd Constitutional Amendment, 1976?

Ans ✗ 1. To work for the country

✗ 2. To safeguard private property

✗ 3. Amend the Constitution and its ideals

✔ 4. To uphold and protect the harmony and the spirit of common brotherhood amongst all the people of India

Q.92 According to Census of India 2011, how many states recorded less than 10 lakhs population?

Ans ✔ 1. One

✗ 2. Two

✗ 3. Three

✗ 4. Zero

Q.93 The Indian Pharmacopoeia Commission (IPC) issued a drug safety alert in December 2023 advising healthcare professionals and patients to monitor adverse reactions to 'Meftal', which has _____ properties

Ans ✗ 1. antacid

✗ 2. antihistamine

✔ 3. antipyretic

✗ 4. antipruritic

Q.94 Arrange the following rivers in the ascending order based on the size of their basins:

Godavari,

Krishna,

Mahanadi,

Ganga.

Ans ✗ 1. Ganga > Mahanadi > Godavari > Krishna

✔ 2. Ganga > Godavari > Krishna > Mahanadi

✗ 3. Ganga > Krishna > Mahanadi > Godavari

✗ 4. Ganga > Mahanadi > Krishna > Godaveri

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Q.95 Which of the following countries rejoined the UNESCO in July 2023 and became its 194ᵗʰ member?

Ans ✗ 1. United Kingdom

✗ 2. India

✓ 3. United States of America

✗ 4. Iran

Q.96 The signatories of the Poona Pact were the Mahatma Gandhi Group and the _____.

Ans ✗ 1. Jawaharlal Nehru Group

✗ 2. Sardar Vallabhbhai Patel Group

✗ 3. Subhas Chandra Bose Group

✓ 4. Dr. BR Ambedkar Group

Q.97 How many amino acids out of the 22 needed by the human body, are NOT produced in the human body?

Ans ✗ 1. 14

✓ 2. 8

✗ 3. 16

✗ 4. 12

Q.98 In September 2024, who among the following launched the Jan Sunwai Portal of the Department of Commerce, designed to streamline communication between stakeholders and authorities?

Ans ✗ 1. Krishna Kumar Vishnoi

✗ 2. Bimal Borah

✗ 3. Chetanya Kasyap

✓ 4. Piyush Goyal

Q.99 The Hindustan Aeronautics Limited handed over the first twin-seater Light Combat Aircraft 'Tejas' to the Indian Air Force in the year _____.

Ans ✗ 1. 2014

✓ 2. 2023

✗ 3. 2018

✗ 4. 2024

Q.100 Who among the following was appointed as the Governor of Chitor after Akbar invaded it in 1567?

Ans ✗ 1. Adham Khan

✓ 2. Asaf Khan

✗ 3. Maan Singh

✗ 4. Bairam Khan

Q.101 Which of the following universities is acclaimed as the 'Oxford of Mahayanism'?

Ans ✗ 1. Vallabhi

✗ 2. Taxila

✗ 3. Vikramshila

✓ 4. Nalanda

Q.102 The efficient market hypothesis (EMH) is foundational to the Capital Asset Pricing Model (CAPM). To test the validity of the EMH, one can examine whether historical data contradicts CAPM. If historical data were to contradict CAPM, which of the following would this imply about the efficient market hypothesis?

Ans ✗ 1. It would imply that the historical data is irrelevant to market efficiency.

✗ 2. It would imply that CAPM is infallible.

✗ 3. It would imply that the market is always efficient.

✓ 4. It would imply that the market is inefficient.

Q.103 As per the Indian Constitution, who among the following is considered as the chief aid and advisor of the Governor of a State?

Ans   ✗ 1. Chief Justice of the High Court

    ✓ 2. Chief Minister of the State

    ✗ 3. Chief Secretary

    ✗ 4. Advocate General

Q.104 Which Indian table tennis player won her maiden international title in the women's singles event at the WTT Feeder Corpus Christi 2024 in Texas, USA, in January 2024?

Ans   ✓ 1. Sreeja Akula

    ✗ 2. Sutirtha Mukherjee

    ✗ 3. Manika Batra

    ✗ 4. Ankita Das

Q.105 In which year did King George V and Queen Mary of Britain visit India, and the announcement regarding the transfer of India's capital from Calcutta (Kolkata) to Delhi take place?

Ans   ✓ 1. 1911

    ✗ 2. 1858

    ✗ 3. 1901

    ✗ 4. 1908

Q.106 Who is the Chairperson of NITI Aayog?

Ans   ✗ 1. Home Minister

    ✓ 2. Prime Minister

    ✗ 3. Vice-President

    ✗ 4. President

Q.107 Which of the following statements regarding Fundamental Rights is/are NOT CORRECT?

1. Fundamental Rights are described in Articles 12 to 36 in Part-3 of the Constitution.
2. This part is called the Magna Carta of India.
3. Their objective is to create a government of law in the country and not of individuals.
4. These are not absolute; the state can impose reasonable restrictions on them.

Ans   ✗ 1. Only 3 and 4

    ✓ 2. Only 1 and 3

    ✗ 3. Only 1 and 4

    ✗ 4. Only 1

Q.108 Which musical instrument is commonly associated with Rajasthani folk music?

Ans   ✗ 1. Tabla

    ✗ 2. Shehnai

    ✗ 3. Dholak

    ✓ 4. Morchang

Q.109 Which scheme is focussed on promoting entrepreneurship among SC/STs and women by providing loans at concessional rates?

Ans   ✗ 1. Stand-Up India Scheme

    ✓ 2. Startup India

    ✗ 3. Pradhan Mantri Rozgar Yojana (PMRY)

    ✗ 4. MUDRA Yojana

Q.110 Which of the following is NOT one of Kepler's laws of planetary motion?

A. The orbit of each planet around the Sun is an ellipse with the Sun at one of the two foci.

B. The orbits of all planets around the Sun are coplanar.

C. A line segment joining a planet and the Sun sweeps out equal areas during equal intervals of time.

D. The square of the orbital period of a planet is directly proportional to the cube of the semi-major axis of its orbit.

Ans ✓ 1. B

✗ 2. A

✗ 3. D

✗ 4. C

Q.111 Which government programme in India aims at eradicating poverty through employment generation in rural areas?

Ans ✗ 1. National Rural Health Mission (NRHM)

✗ 2. Pradhan Mantri Awas Yojana (PMAY)

✗ 3. National Food Security Act (NFSA)

✓ 4. Mahatma Gandhi National Rural Employment Guarantee Act (MGNREGA)

Q.112 Delhi Sultanate signifies the rule over India with capital as Delhi, of which community?

Ans ✗ 1. Persian

✓ 2. Turkish

✗ 3. Arabian

✗ 4. African

Q.113 Which equation demonstrates that electricity, magnetism and light are all manifestations of the electromagnetic field?

Ans ✗ 1. Kirchhoff's equation

✗ 2. Ohm's equation

✗ 3. Laplace equation

✓ 4. Maxwell's equation

Q.114 In December 2023, Revanth Reddy became the Chief Minister of which state?

Ans ✗ 1. Karnataka

✓ 2. Telangana

✗ 3. Madhya Pradesh

✗ 4. Chhattisgarh

Q.115 The Vande Bharat Express is made in which country?

Ans ✗ 1. Japan

✗ 2. Korea

✓ 3. India

✗ 4. England

Q.116 Which initiative has been introduced in DISC 12 to foster the development of medical technologies for the Armed Forces in 2024?

Ans ✓ 1. MIRA

✗ 2. iDEX

✗ 3. ADITI

✗ 4. AIM

Q.117 What is the role of the Experts Advisory Committee (EAC) in the implementation of the Startup India Seed Fund Scheme (SISFS)?

Ans ✗ 1. Monitoring the performance of startups receiving funding

✗ 2. Approving individual startup funding requests

✓ 3. Evaluating and selecting incubators for fund allocation

✗ 4. Disbursing funds directly to startups

Q.118 What is the name of the half humanoid robot that India is planning to launch in space before the actual human mission Gaganyaan to test flight criticalities?

Ans ✓ 1. Vyommitra

✗ 2. Gaganmaitri

✗ 3. Nabhmitra

✗ 4. Antariksha vicharak

Q.119 The synthetic auxin 2,4-D is commonly used as a _____.

Ans ✓ 1. herbicide

✗ 2. signalling hormone

✗ 3. defense hormone

✗ 4. stress hormone

Q.120 Mopin Festival is celebrated in which state of India?

Ans ✗ 1. Uttar Pradesh

✗ 2. Haryana

✓ 3. Arunachal Pradesh

✗ 4. Rajasthan

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Section : Arithmetic

Q.1 If x varies inversely as $y^3 - 1$ and is equal to 6 when y = 3, find x when y = 9.

Ans
✗ 1. $\dfrac{3}{15}$

✔ 2. $\dfrac{3}{14}$

✗ 3. $\dfrac{4}{15}$

✗ 4. $\dfrac{5}{14}$

Q.2 $\dfrac{(a^9 \times b^9 \times c^3)}{(a^7 \times b^5 \times c^2)}$ in simplified form is:

Ans
✗ 1. $(a^9) \times (b^2) \times (c^9)$

✗ 2. $(a^{10}) \times (b^{-2}) \times (c^{-2})$

✗ 3. $(a^{10}) \times (b^5) \times (c^{-1})$

✔ 4. $(a^2) \times (b^4) \times (c^1)$

Q.3 Chandu covers 245 km in a boat in 30 hours against the stream and he takes 21 hours with the stream then find the speed of the stream?

Ans
✗ 1. 10.88 km/h

✗ 2. 7.18 km/h

✔ 3. 1.75 km/h

✗ 4. 5.75 km/h

Q.4 To create a mixture that costs ₹110 per kg, 30 kg of one type of rice is combined with 60 kg of another type of rice that costs ₹100 per kg, find out how much the more expensive rice costs per

Ans
✗ 1. ₹120 per kg

✗ 2. ₹125 per kg

✔ 3. ₹130 per kg

✗ 4. ₹135 per kg

Q.5 The average of 7 numbers is 55. If each number is increased by 6, what will the new average be?

Ans
✗ 1. 55

✗ 2. 67

✗ 3. 7

✔ 4. 61

Q.6 Find the surface area of a sphere whose diameter is equal to 8 cm.

Ans
✗ 1. 87 cm^2

✔ 2. 64 cm^2

✗ 3. 543 cm^2

✗ 4. 786 cm^2

Q.7 The expenditure of Sudha is 100% more than her savings. If her expenditure decreases by 2% and savings increase by 10%, then by what percent does her income increase?

Ans ✔1. 0.02

✘2. 0.06

✘3. 0.01

✘4. 0.05

Q.8 Find the value of $\left[(29 \times 8) \times \left\{ 2 \div 2 \times \frac{(18 - 11)}{7} \right\} \right]$

Ans ✔1. 232

✘2. 234

✘3. 233

✘4. 228

Q.9 A bank offers 2.6% compound interest per annum calculated on a half-yearly basis. A customer deposits ₹8565 each on 1 January and 1 July of a year. At the end of the year, the amount he would have gained by way of interest is _____. [Give your answer correct to 2 decimal places.]

Ans ✘1. ₹325.48

✔2. ₹335.48

✘3. ₹343.66

✘4. ₹323.72

Q.10 A bank offers 3.8% compound interest per annum calculated on a half-yearly basis. A customer deposits ₹2710 each on 1 January and 1 July of a year. At the end of the year, the amount he would have gained by way of interest is _____. [Give your answer correct to 2 decimal places.]

Ans ✘1. ₹170.5

✘2. ₹175.44

✘3. ₹174.88

✔4. ₹155.44

Q.11 The area of a square plot is 29929 m². The length of each side of the plot (in m) is:

Ans ✘1. 177

✘2. 163

✘3. 197

✔4. 173

Q.12 A man walks to a viewpoint and returns to the starting point by his car maintaining constant speed and thus takes a total time of 7 hours 15 minutes. He would have gained 6 hours by driving both ways. How long would it have taken for him to walk both ways with same walking speed?

Ans ✘1. 12 hours 15 minutes

✘2. 14 hours 30 minutes

✔3. 13 hours 15 minutes

✘4. 13 hours 45 minutes

Q.13 Which of the following fractions is the largest?
$\frac{4}{6}$, $\frac{7}{79}$, $\frac{19}{54}$, $\frac{54}{84}$

Ans ✘1. $\frac{7}{79}$

✘2. $\frac{19}{54}$

✔3. $\frac{4}{6}$

✘4. $\frac{54}{84}$

Q.14 The smallest 1-digit number to be added to the 6-digit number 777288 so that it is completely divisible by 11 is:

Ans ✔1. 5

✘2. 1

✘3. 7

✘4. 9

Q.15 A trader gives 5% discount on the marked price of an article and gives 4 articles free for buying 14 articles and gains 33% in the entire transaction. Assuming a customer pays for 14 articles, the marked price of an article is what per cent more than its cost price?

Ans   ✗ 1. 90%

     ✔ 2. 80%

     ✗ 3. 79%

     ✗ 4. 81%

Q.16 The smallest natural number which is divisible by 40, 16, 8 and 24 is:

Ans   ✔ 1. 240

     ✗ 2. 332

     ✗ 3. 226

     ✗ 4. 270

Q.17 A sum, when invested at 10% simple interest per annum, amounts to ₹9360 after 3 years. What is the simple interest (in ₹) on the same sum at the same rate in 1 year?

Ans   ✗ 1. 1440

     ✔ 2. 720

     ✗ 3. 360

     ✗ 4. 2880

Q.18 The average of eight numbers is 20. The average of five of these numbers is 18. The average of the remaining three numbers is

Ans   ✗ 1. 25.33

     ✗ 2. 22.33

     ✗ 3. 24.33

     ✔ 4. 23.33

Q.19 During sale, Raghav bought a notebook marked for ₹100 at 86% discount and a pen marked for ₹95 at 40% discount. How much (in ₹) did he save due to sale?

Ans   ✗ 1. 123

     ✗ 2. 126

     ✔ 3. 124

     ✗ 4. 121

Q.20 My little sister is filling a conical bag with gems. She knows that the capacity of each bag is 75.36 cubic inches. Find the slant height of the cone, upto three decimal places, if the diameter is 6 in

Ans   ✗ 1. 8.455 inches

     ✔ 2. 8.544 inches

     ✗ 3. 8.545 inches

     ✗ 4. 8.454 inches

Q.21 Ruchi and Sheetal invest in a business in the ratio 9 : 6. If total profit is Rs. 2775, then what is difference between the profit (in Rs.) of Ruchi and Sheetal?

Ans   ✗ 1. 605

     ✔ 2. 555

     ✗ 3. 405

     ✗ 4. 705

Q.22 Two trains of equal length are running on parallel lines in the same direction at speeds of 97 km/h and 21 km/h. The faster train passes the slower train in 45 seconds. The length of each train is:

Ans   ✗ 1. 477 meters

     ✗ 2. 466 meters

     ✔ 3. 475 meters

     ✗ 4. 472 meters

Q.23 Shweta and Monika invest in a business in the ratio 2 : 1. If total profit is Rs. 1347, then what is difference between the profit (in Rs.) of Shweta and Monika?

Ans
✗ 1. 399

✗ 2. 599

✗ 3. 549

✔ 4. 449

Q.24 The smallest natural number which is divisible by 13, 6, 24 and 39 is:

Ans
✗ 1. 359

✔ 2. 312

✗ 3. 243

✗ 4. 340

Q.25 The selling price of 32 books is equal to the cost price of 24 books. Find the loss or gain percentage.

Ans
✗ 1. $\frac{100}{8}\% \ gain$

✗ 2. 25 % gain

✔ 3. 25 % loss

✗ 4. $\frac{100}{8}\% \ loss$

Q.26 Find the gain percentage, given that Aditi sold her scooter for ₹82008 gaining $\frac{1}{6}$ th of the selling price.

Ans
✔ 1. 20%

✗ 2. 30%

✗ 3. 35%

✗ 4. 10%

Q.27 A number when increased by 50 %', gives 3780. The number is:

Ans
✗ 1. 1260

✗ 2. 5040

✗ 3. 7560

✔ 4. 2520

Q.28 Lalit's average earning per month in the first three months of a year was ₹4184. In April, his earning was 50% more than the average earning in the first three months. If his average earning per month for the whole year is ₹17553, then what will be Lalit's average earning (in ₹) per month from May to December?

Ans
✗ 1. 23973

✗ 2. 23979

✔ 3. 23976

✗ 4. 23978

Q.29 12 chefs can make 96 dishes in 4 hours. Find the average dishes that can be made by each chef in an hour.

Ans
✔ 1. 2

✗ 2. 4

✗ 3. 6

✗ 4. 8

Q.30 What time (in seconds) is required for a 188 m long train to cross a 472 m long tunnel, if the train travels at a speed of 27 km/h?

Ans
✗ 1. 79

✗ 2. 98

✗ 3. 80

✔ 4. 88

Q.31 The smallest 1-digit number to be added to the 6-digit number 489483 so that it is completely divisible by 11 is:

Ans
✗ 1. 3

✗ 2. 5

✗ 3. 4

✔ 4. 6

Q.32 Simplify the following:
$\{(-1.5) \times (-8.2) - 3.3\}(4.2)^2$

Ans ✓ 1. 158.76

✗ 2. 158

✗ 3. 155.76

✗ 4. 155

Q.33 Study the given table and answer the question that follows.
The table shows the monthly expenditure (in ₹) of five people on education, rent, food, conveyance and electricity.

Person	Education	Rent	Food	Conveyance	Electricity
Praveen	5,000	3,800	4,800	3,500	2,000
Rohan	6,400	4,000	4,500	4,000	2,400
Reena	5,500	3,600	4,000	3,600	1,800
Seema	6,000	4,200	5,000	4,400	2,200
Teena	7,000	4,400	5,500	4,000	2,500

Find the ratio of the amount spent by Rohan and Teena on food and education to the amount spent by Praveen and Seema on rent and conveyance.

Ans ✗ 1. 38 : 29

✗ 2. 81 : 68

✓ 3. 78 : 53

✗ 4. 45 : 34

Q.34 The sides of a triangle are 60 cm, 75 cm, and 45 cm. What is its area? (in cm²)

Ans ✗ 1. 1307

✓ 2. 1350

✗ 3. 1385

✗ 4. 1390

Q.35 If $\frac{p}{q} = \frac{19}{5} + \frac{2}{7} - 2.4 + \left(\frac{4.8}{2.4}\right)^2$, where p/q is a simplest form, then find the sum of the digits of q.

Ans ✗ 1. 6

✓ 2. 8

✗ 3. 5

✗ 4. 7

Section : General Intelligence and Reasoning

Q.36 Each of the digits in the number 71248935 is arranged in descending order from left to right. Which of the following digits will be fifth from the right?

Ans ✓ 1. 5

✗ 2. 3

✗ 3. 4

✗ 4. 7

Q.37 Based on the English alphabetical order, three of the following four letter-clusters are alike in a certain way and thus form a group. Which letter-cluster DOES NOT belong to that group?

(Note: The odd man out is not based on the number of consonants/vowels or their position in the letter-cluster.)

Ans ✗ 1. QRP

✓ 2. AZX

✗ 3. KLJ

✗ 4. FGE

Q.38 In a certain code language, 'CROP' is coded as '4317' and 'COIR' is coded as '4237'. What is the code for 'I' in the given code language?

Ans ✓ 1. 2

✗ 2. 7

✗ 3. 4

✗ 4. 3

Q.39 Each of P, Q, R, S, T, U and V has an exam on a different day of a week starting from Monday and ending on Sunday of the same week. S has an exam on Friday. Only 2 people have an exam between S and R. Q has an exam immediately before T and U has an exam immediately after V. Only 2 people have an exam between P and T. How many people have an exam before T?

Ans ✗ 1. 1

✗ 2. 4

✔ 3. 3

✗ 4. 2

Q.40 Identify the figure given in the options which when put in place of the question mark (?) will logically complete the series.
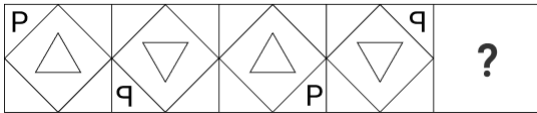
Ans 1. ✗

2. ✔

3. ✗

4. ✗

Q.41 If 'A' stands for '÷', 'B' stands for '×', 'C' stands for '+' and 'D' stands for '−', what will be come in place of question mark '?' in the following equation?
31 C 25 B 32 A 40 D 32 = ?

Ans ✗ 1. 17

✗ 2. 21

✔ 3. 19

✗ 4. 20

Q.42 Select the pair that follows the same pattern as that followed by the two pairs given below. Both pairs follow the same pattern.

QRL : TTM

WVN : ZXO

Ans ✗ 1. KUQ : MYS

✗ 2. MBK : OGM

✔ 3. CZP : FBQ

✗ 4. SWV : WZX

Q.43 Which of the following letter-clusters should replace # and % so that the pattern and relationship followed between the letter-cluster pair on the left side of :: is the same as that on the right side of ::?
: LOU :: ADJ : %

Ans ✔ 1. # = HKQ; % = EHN

✗ 2. # = HKQ; % = EHM

✗ 3. # = HKO; % = EHN

✗ 4. # = HKQ; % = FHN

Q.44 Based on the English alphabetical order, three of the following four letter-cluster pairs are alike in a certain way and thus form a group. Which is the letter-cluster pair that DOES NOT belong to that group?

(Note: The odd man out is not based on the number of consonants/vowels or their position in the letter-cluster.)

Ans
✔ 1. NU-RX

✘ 2. BH-EK

✘ 3. JP-MS

✘ 4. FL-IO

Q.45 Mayank starts from Point A and drives 9 km towards the South. He then takes a left turn, drives 11 km, turns left and drives 15 km. He then takes a left turn and drives 12 km. He takes a final left turn, drives 6 km and stops at Point P. How far (shortest distance) and towards which direction should he drive in order to reach Point A again? (All turns are 90 degrees turns only unless specified)

Ans
✘ 1. 1 km to the west

✔ 2. 1 km to the east

✘ 3. 2 km to the west

✘ 4. 2 km to the east

Q.46 Based on the English alphabetical order, three of the following four letter-clusters are alike in a certain way and thus form a group. Which letter-cluster DOES NOT belong to that group?

(Note: The odd one out is not based on the number of consonants/vowels or their position in the letter-cluster.)

Ans
✘ 1. OQN

✘ 2. YAX

✘ 3. DFC

✔ 4. HKG

Q.47 G, H, I, J, M, N and O are sitting around a square table facing the centre of the table.
Only five people sit between H and G. O sits to the immediate left of G. Only one person sits between O and I. J sits at some place to the left of N but at some place to the right of M.
Who sits third from the left end of the line?

Ans
✘ 1. O

✔ 2. J

✘ 3. G

✘ 4. I

Q.48 In a certain code language, 'enjoy every moment' is coded as 'ut mb tk' and 'moment of clarity' is coded as 'tk mo mt'. How is 'moment' coded in the given language?

Ans
✘ 1. mo

✘ 2. ut

✔ 3. tk

✘ 4. mb

Q.49 Select the triad that follows the same pattern as the one followed by the two triads given below. Both triads follow the same pattern.

OK-RN-TW

MI-PL-RU

Ans
✘ 1. KG-NJ-PR

✘ 2. LG-NI-PR

✔ 3. KG-NJ-PS

✘ 4. LG-NJ-PR

Q.50 Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.

Statements:
All peas are carrots.
All carrots are onions.
Some onions are brinjals.

Conclusions:
(I): Some peas are brinjals.
(II): Some carrots are brinjals.

Ans
✔ 1. Neither conclusion I nor II follows

✘ 2. Both conclusions I and II follow

✘ 3. Only conclusion I follows

✘ 4. Only conclusion II follows

Q.51 S is the wife of D. D is the brother of F. F is the father of G. G is the mother of H. How is S related to H?

Ans ✗ 1. Mother's mother's brother's wife

✓ 2. Mother's father's brother's wife

✗ 3. Father's mother's brother's wife

✗ 4. Father's father's brother's wife

Q.52 If 1 is added to each odd digit and 2 is subtracted from each even digit in the number 5834671, which of the following digits will be first from the right in the new number thus formed?

Ans ✗ 1. 4

✗ 2. 5

✓ 3. 2

✗ 4. 8

Q.53 Refer to the following letter, number, symbol series and answer the question that follows.
(Left) R % C & E 2 S 4 # 5 K & 7 G Y @ 3 6 T * D (Right)

How many such symbols are there, which are immediately preceded by a letter and also immediately followed by a number?

Ans ✗ 1. One

✗ 2. Three

✓ 3. Two

✗ 4. None

Q.54 Select the number from among the given options that can replace the question mark (?) in the following series.

29 36 50 71 99 ?

Ans ✗ 1. 136

✗ 2. 138

✓ 3. 134

✗ 4. 132

Q.55 Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.

M

FDdaBpP

N

Ans ✗ 1. FDdaBpP (mirrored)

✓ 2. FDdaBpP (mirrored)

✗ 3. FDdaBpP (mirrored)
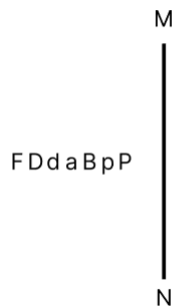
✗ 4. FDdaBpP (mirrored)

Q.56 Refer to the following letter, number and symbol series and answer the question that follows. Counting to be done from left to right only.
(Left) 7 J £ W € 2 Q £ K £ 6 1 D U & 1 4 M Y * V X (Right)
If all the numbers are dropped from the series, which of the following will be eighth from the left?

**Ans** ✗ 1. D

✗ 2. K

✓ 3. £

✗ 4. €

Q.57 Z is the mother of S. P is the daughter of Q. G is the husband of Z. Q is the son of R. S is the mother of P. How is G related to Q?

Ans
✗ 1. Mother's brother

✗ 2. Sister's husband

✗ 3. Brother's son

✓ 4. Wife's father

Q.58 Each of A, B, C, D, P, Q and R has an exam on a different day of a week starting from Monday and ending on Sunday of the same week. Only two people have exam before R. Only one person has exam after A. Only three people have exam between R and Q. Only one person has exam between C and D. P has exam immediately before C. Who among the following has exam on Friday?

Ans
✗ 1. Q

✓ 2. B

✗ 3. P

✗ 4. A

Q.59 Four of the following five figures are alike in a certain way and thus form a group. Which figure DOES NOT belong to that group?
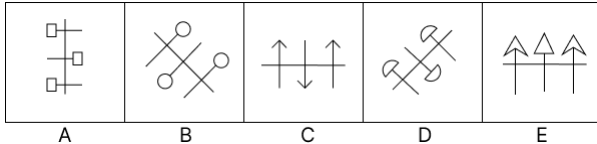
Ans
✗ 1. C

✓ 2. E

✗ 3. D

✗ 4. A

Q.60 What should come in place of the question mark (?) in the given series based on the English alphabetical order?

EGB, FHF, GIJ, HJN, ?

Ans
✓ 1. IKR

✗ 2. RIK

✗ 3. KIR

✗ 4. IRK

Q.61 86 is related to 298 following a certain logic. Following the same logic, 105 is related to 317. To which of the following is 48 related, following the same logic?

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 – Operations on 13 such as adding / subtracting /multiplying to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

Ans
✓ 1. 260

✗ 2. 250

✗ 3. 270

✗ 4. 280

Q.62 Six people, named W, X, Y, Z, T and U, each are of different ages. The age of T is 24. The age of W is one-fourth times the age of U. The age of Z is half times the age of X. The age of U is three times the age of Z. The age of T is two times the age of W. If The age of X is four times the age of Y. What is the age of Y?

Ans
✓ 1. 8

✗ 2. 12

✗ 3. 13

✗ 4. 15

Q.63 A, B, C, D, E, F and G are sitting around a circular table facing the centre. Only two people sit between A and D, when counted from the left of D. E sits third to the left of B. C sits to the immediate right of B. C sits second to the left of A. G is an immediate neighbour of E. How many people sit between B and E, when counted from the left of B?

Ans
✓ 1. 2

✗ 2. 1

✗ 3. 4

✗ 4. 3

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Q.64 This question is based on the following words.

WAR PIN AND FEW

If in each of the words, each letter is changed to the next letter in the English alphabetical order, how many words thus formed will have no vowel?

Ans

✗ 1. 4

✔ 2. 2

✗ 3. 3

✗ 4. 1

Q.65 What should come in place of the question mark (?) in the given series based on the English alphabetical order?

IFM KHO MJQ OLS ?

Ans

✗ 1. QNV

✔ 2. QNU

✗ 3. QMU

✗ 4. QMV

Q.66 In a certain code language, 'LIKE' is coded as '5427' and 'EARS' is coded as '6314'. What is the code for 'E' in the given code language?

Ans

✔ 1. 4

✗ 2. 1

✗ 3. 7

✗ 4. 6

Q.67 Two sets of numbers are given below. In each set of numbers, certain mathematical operation(s) on the first number result(s) in the second number. Similarly, certain mathematical operation(s) on the second number result(s) in the third number and so on. Which of the given options follows the same set of operations as in the given sets?

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 – Operations on 13 such as adding / subtracting / multiplying to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

3 - 4 - 5 - 10 ; 1 - 2 - 3 - 6

Ans

✔ 1. 8 - 9 - 10 - 20

✗ 2. 7 - 8 - 9 - 10

✗ 3. 17 - 18 - 19 - 20

✗ 4. 12 - 13 - 14 - 20

Q.68 Refer to the following letter and symbol series and answer the question that follows. Counting to be done from left to right only.

(Left) Y # E S * £ B K Ω G C & T % Q & R D A @ U $ (Right)

How many such symbols are there each of which is immediately preceded by another symbol and also immediately followed by a letter?

Ans

✗ 1. 0

✔ 2. 1

✗ 3. 2

✗ 4. 3

Q.69 Seven boxes K, L, M, N, O, P and T are kept one over the other, but not necessarily in the same order. Only M is kept above O. Only P is kept between O and T. Only N is kept below K. How many boxes are kept between L and M?

Ans

✔ 1. Three

✗ 2. Two

✗ 3. One

✗ 4. Four

Q.70 Yangden starts from Point A and drives 14 km towards south. He then takes a right turn, drives 13 km, turns right and drives 17 km. He then takes a right turn and drives 19 km. He takes a final right turn, drives 3 km and stops at Point P. How far (shortest distance) and towards which direction should he drive in order to reach Point A again? (All turns are 90 degrees turns only unless specified)

Ans ✗ 1. 5 km to the west

✓ 2. 6 km to the west

✗ 3. 4 km to the west

✗ 4. 2 km to the west

Section : General Awareness

Q.71 What was the final bidding price of Tata Sons for Air India?

Ans ✗ 1. Rs.16,000 crores

✓ 2. Rs.18,000 crores

✗ 3. Rs.12,000 crores

✗ 4. Rs.22,000 crores

Q.72 Who among the following is an Indian-origin Satellite Industry Expert who was appointed as Director of United Nations Office for Outer Space Affairs in June 2023?

Ans ✗ 1. Kaushik Basu

✗ 2. Behruz Sethna

✓ 3. Aarti Holla-Maini

✗ 4. Michael Rao

Q.73 Which of the following conditions were NOT true for India's first winter scientific arctic expedition flagged off by Kiren Rijiju in 2023?

Ans ✓ 1. The exploration was carried out for the months of November and December only.

✗ 2. The exploration was carried out for the months of November to March.

✗ 3. Subzero temperatures.

✗ 4. There was almost no sunlight for 24 hours.

Q.74 According to the Census of India 2011, from the given options, which state recorded the lowest literacy rate?

Ans ✓ 1. Arunachal Pradesh

✗ 2. Meghalaya

✗ 3. Uttarakhand

✗ 4. Haryana

Q.75 Select the correct group of crops that are grown in the 'Rabi' season in India.

Ans ✗ 1. Urad and Groundnut

✗ 2. Gram and Paddy

✓ 3. Gram and Mustard

✗ 4. Barley and Jowar

Q.76 What do you call the pattern of arrangement of leaves on a stem or branch?

Ans ✗ 1. Apotaxis

✓ 2. Phyllotaxy

✗ 3. Geotaxis

✗ 4. Thallotaxy

Q.77 Field lines serve as a representation of a magnetic field. They represent a path along which:

Ans ✗ 1. a hypothetical free south pole would tend to move

✗ 2. a free electron would tend to move

✗ 3. a free proton would tend to move

✓ 4. a hypothetical free north pole would tend to move

Q.78 Which of the following Articles of the Indian Constitution states that it is the duty of every citizen of India to safeguard public property and to abjure violence?

Ans ✓ 1. Article 51A (i)

✗ 2. Article 51A (k)

✗ 3. Article 51A (d)

✗ 4. Article 51A (f)

Q.79 Which of the following Articles of the Indian Constitution provides for the Protection of 'Life and Personal Liberty'?

Ans ✗ 1. Article 22

✓ 2. Article 21

✗ 3. Article 25

✗ 4. Article 18

Q.80 Which of the following rivers is NOT a part of the Deccan river system?

Ans ✗ 1. Cauvery

✓ 2. Sutlej

✗ 3. Krishna

✗ 4. Godavari

Q.81 In which of the following Articles are there provisions related to establishment of the Election Commission?

Ans ✗ 1. Article 353

✓ 2. Article 324

✗ 3. Article 343

✗ 4. Article 330

Q.82 Which Article of the Indian Constitution provided power to the Supreme Court of India to review its own judgements?

Ans ✗ 1. Article 140

✓ 2. Article 137

✗ 3. Article 150

✗ 4. Article 138

Q.83 When is the Marginal Rate of Substitution (MRS) of Y for X relevant?

Ans ✗ 1. When the consumer is ready to give up Y for an additional unit of X

✓ 2. When the consumer is ready to give up X for an additional unit of Y

✗ 3. When the consumer acquires additional units of both X and Y

✗ 4. When the consumer ready to give up both X and Y

Q.84 Who among the following religious and social reformers contributed in the abolition of Sati in 1929?

Ans ✗ 1. Jyotirao Govindrao Phule

✓ 2. Raja Rammohan Roy

✗ 3. Radhakant Deb

✗ 4. Ishwar Chandra Vidyasagar

Q.85 ISRO successfully tested a 100 W class Polymer Electrolyte Membrane Fuel Cell based Power System (FCPS) in its orbital platform, POEM3, using which of the following two gases?

Ans ✗ 1. Nitrogen and oxygen

✗ 2. Nitrogen and argon

✗ 3. Hydrogen and helium

✓ 4. Hydrogen and oxygen

Q.86 Where are the Lakshadweep Islands located?

Ans ✓ 1. Close to the Malabar coast of Kerala

✗ 2. Close to the Coromandel coast of Andhra Pradesh

✗ 3. Close to the Konkan coast of Maharashtra

✗ 4. Close to the Coromandel coast of Tamil Nadu

Q.87 The child sex ratio (females per 1000 males) in India from 1951 to 2011:

Ans ✓ 1. decreased

✗ 2. increased

✗ 3. was stable

✗ 4. increased and then decreased

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Q.88 Which of the following is responsible for the conversion of stored fats into sugars in plant cell?

Ans
- ✗ 1. Oxysome
- ✗ 2. Golgi body
- ✗ 3. Ribosome
- ✓ 4. Glyoxysome

Q.89 The Chamoli, Pithoragarh and Almora districts are part of which biosphere reserve?

Ans
- ✓ 1. Nanda Devi
- ✗ 2. Nokrek
- ✗ 3. Cold Desert
- ✗ 4. Similipal

Q.90 Which of the following dams is not located in Uttarakhand?

Ans
- ✓ 1. Nagi Dam
- ✗ 2. Lakhwar Dam
- ✗ 3. Tehri Dam
- ✗ 4. Ramganga Dam

Q.91 Which of the following is NOT a class of sub phylum vertebrata?

Ans
- ✗ 1. Aves
- ✗ 2. Mammals
- ✗ 3. Reptilia
- ✓ 4. Arachnida

Q.92 What is the tenure of the Chief Election Commissioner of India?

Ans
- ✓ 1. Six years or till the age of 65 years, whichever is earlier
- ✗ 2. Five years or till the age of 60 years, whichever is earlier
- ✗ 3. Six years
- ✗ 4. At the pleasure of the President

Q.93 Which of the following pH values indicates neutrality in a solution?

Ans
- ✓ 1. 7
- ✗ 2. 14
- ✗ 3. 0
- ✗ 4. −14

Q.94 Who among the following former RAW Chiefs has written the book titled 'A Life in the Shadows: A Memoir'?

Ans
- ✗ 1. JS Bedi
- ✗ 2. Arvind Dave
- ✗ 3. Alok Joshi
- ✓ 4. AS Dulat

Q.95 Which country officially became the 100th full member of the International Solar Alliance (ISA) in June 2024?

Ans
- ✓ 1. Paraguay
- ✗ 2. Nepal
- ✗ 3. Spain
- ✗ 4. Armenia

Q.96 Who among the following Mughal Princes allied with Malik Ambar and revolted against his father?

Ans
- ✗ 1. Akbar
- ✓ 2. Shah Jahan
- ✗ 3. Aurangzeb
- ✗ 4. Jahangir

Q.97 Where was the 0832 India Open Competition – Rifle and Pistol 2024 organised and conducted by the National Rifle Association of India in August 2024?

Ans ✔ 1. Goa

✘ 2. Aligarh

✘ 3. Panipat

✘ 4. Delhi

Q.98 _____ is a form of government in which the rulers are elected by the people.

Ans ✘ 1. Theocracy

✔ 2. Democracy

✘ 3. Oligopoly

✘ 4. Fascism

Q.99 Onam festival is celebrated in which of the following states of India?

Ans ✘ 1. Arunachal Pradesh

✘ 2. Maharashtra

✘ 3. Gujarat

✔ 4. Kerela

Q.100 Who among the following is revered as 'Karnataka Sangita Pitamaha'?

Ans ✘ 1. Muthuswami Dikshitar Dasa

✔ 2. Purandara Dasa

✘ 3. Tyagaraja Dasa

✘ 4. Annamacharya Dasa

Q.101 Who is the Minister of State for Defence as of August 2024 in India?

Ans ✔ 1. Sanjay Seth

✘ 2. Vijay Bhatt

✘ 3. Alok Tiwari

✘ 4. Amrendra Tiwari

Q.102 Which of the following is NOT a criterion for the post of the Chief Justice of India?

Ans ✘ 1. In the opinion of the President, a distinguished jurist

✔ 2. Has been for at least five years an advocate of a High Court or of two or more such Courts in succession

✘ 3. He/She is a citizen of India

✘ 4. Has been for at least five years a Judge of a High Court or of two or more such Courts in succession

Q.103 The Carriage of Goods by Sea Bill, 2024, introduced in Lok Sabha on 9 August 2024 seeks to replace the Indian Carriage of Goods by Sea Act, _____.

Ans ✘ 1. 1921

✘ 2. 1915

✔ 3. 1925

✘ 4. 1906

Q.104 On which of the following scientific principles does a steam engine work?

Ans ✘ 1. Superconductivity

✔ 2. Laws of thermodynamics

✘ 3. Photoelectric effect

✘ 4. Newton's laws of motion

Q.105 Which of the following committees recommended the use of Mixed Reference Period against Uniform Reference Period?

Ans ✘ 1. National Sample Survey Organisation

✘ 2. C Rangrajan Committee

✔ 3. Tendulkar Expert Group

✘ 4. NITI Aayog

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Q.106 Who among the following wrote 'The Palace of Illusions'?

Ans
✓ 1. Chitra Banerjee Divakaruni

✗ 2. Aravind Adiga

✗ 3. Rajiv Malhotra

✗ 4. Gayatri Sinha

Q.107 The kings of which among the following dynasties defeated the kings of Malaya, Java and Sumatra?

Ans
✗ 1. Rashtrakuta

✓ 2. Chola

✗ 3. Chera

✗ 4. Pandaya

Q.108 In which of the following years was the battle of Bannihatti fought?

Ans
✗ 1. 1558

✗ 2. 1560

✓ 3. 1565

✗ 4. 1556

Q.109 Which of the following statements is INCORRECT with respect to Agri-Clinics and Agri-Business Centres (AC&ABC) Scheme in India?

Ans
✓ 1. The AC & ABC Scheme is under implementation since April 2008.

✗ 2. NABARD is implementing subsidy component under the scheme on the behalf of Government of India.

✗ 3. National Institute of Agricultural Extension Management (MANAGE) is the implementing agency for training component under the scheme.

✗ 4. As of December 2022, about 83810 candidates have been trained under the scheme so far.

Q.110 Which former Indian shooter became the first Indian President of the Olympic Council of Asia (OCA) in 2024?

Ans
✗ 1. Joydeep Karmakar

✗ 2. Vijay Kumar

✓ 3. Raja Randhir Singh

✗ 4. Rajyavardhan Singh Rathore

Q.111 'The service of mankind is a means to salvation'. This slogan was propounded by Gangadhar Chattopadhyay. He was associated with _____

Ans
✗ 1. Prarthana Samaj

✗ 2. Brahmo Samaj

✓ 3. Ramakrishna Mission

✗ 4. Arya Samaj

Q.112 Which of the following bills was passed in Parliament to regulate the appointment, conditions of service and term of office of the Chief Election Commissioner and other Election Commissioners, the procedure for transaction of business by the Election Commission and for matters connected therewith or incidental thereto?

Ans
✗ 1. The Chief Election Commissioner and other Election Commissioners (Appointment Conditions of Service and Term of Office) Bill, 2024

✗ 2. The Chief Election Commissioner and other Election Commissioners (Procedure for Transaction of Business) Bill, 2024

✓ 3. The Chief Election Commissioner and other Election Commissioners (Appointment Conditions of Service and Term of Office) Bill, 2023

✗ 4. The Chief Election Commissioner and other Election Commissioners (Procedure for Transaction of Business) Bill, 2023

Q.113 Which government programme aims to provide employment to rural households through works related to water conservation, land development, and rural infrastructure?

Ans
✓ 1. Mahatma Gandhi National Rural Employment Guarantee Act (MGNREGA)

✗ 2. Pradhan Mantri Rozgar Yojana (PMRY)

✗ 3. Swachh Bharat Abhiyan

✗ 4. National Rural Livelihood Mission (NRLM)

Q.114 How does the Securities and Exchange Board of India (SEBI) enhance investor protection?

Ans
✗ 1. By providing insurance to investors

✗ 2. By setting monetary policies

✗ 3. By directly investing in the stock market

✓ 4. By regulating stock exchanges and securities to prevent fraud

Q.115 As of February 2024, which year marked the highest number of prisoners on death row in nearly 20 years in India?

Ans ✗ 1. 2019

✗ 2. 2020

✓ 3. 2023

✗ 4. 2021

Q.116 Which of the following Neolithic sites yielded the remains of three species of deer (the Barasingha, Gazelle, and Spotted Deer)?

Ans ✗ 1. Bhimbetka

✓ 2. Kodekal

✗ 3. Patne

✗ 4. Didwana

Q.117 Which of the following statements is INCORRECT?

Ans ✗ 1. The green revolution enabled the government to procure a sufficient amount of food grains to build a stock.

✗ 2. The use of High yielding variety seeds was restricted to the more affluent states.

✗ 3. The spread of green revolution technology enabled India to achieve self-sufficiency in food grains.

✓ 4. The first phase of the green revolution was started around the mid-1950s.

Q.118 Which of the following compositions reflects the devotional form of Carnatic music?

Ans ✗ 1. Pandavani

✗ 2. Hori

✗ 3. Alha

✓ 4. Devara Nama

Q.119 Who among the following formed the Ghadr (Gadar) Party to organise a rebellion against the British government of India in the USA?

Ans ✗ 1. Ram Prasad Bismil

✗ 2. Sachindra Nath Bakshi

✓ 3. Lala Hardayal

✗ 4. Subhash Chandra Bose

Q.120 Who became the President of Mexico in June 2024 who was a climate scientist and former mayor of Mexico City?

Ans ✗ 1. Enrique Pena Nieto

✓ 2. Claudia Sheinbaum

✗ 3. Andres Manuel Lopez Obrador

✗ 4. Felipe Calderon

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Section : **Arithmetic**

Q.1 The smallest natural number which is divisible by 18, 5, 81 and 90 is:

Ans ✗ 1. 751

✗ 2. 720

✓ 3. 810

✗ 4. 797

Q.2 Given that $137^{0.42} = x$, $137^{0.62} = y$ and $x^z = y^2$, then the value of z is close to:

Ans ✗ 1. 4.37

✗ 2. 4.66

✓ 3. 2.95

✗ 4. 2.8

Q.3 A vendor claims to sell wheat at a loss of 25%. But he cheats by using weights that weigh 35% less than what is mentioned on them. What is his profit percentage (rounded off to 2 decimal places)?

Ans ✗ 1. 20.31

✗ 2. 14.41

✓ 3. 15.38

✗ 4. 19.85

Q.4 The cost of painting a rectangular sheet at the rate of ₹1.5 per square cm is ₹945. If the length of the rectangular sheet is 30 cm, then what is its breadth (in cm)?

Ans ✔ 1. 21

✘ 2. 20

✘ 3. 22

✘ 4. 19

Q.5 The average of 7 numbers is 57. If each number is increased by 6, what will the new average be?

Ans ✘ 1. 69

✘ 2. 57

✔ 3. 63

✘ 4. 7

Q.6 A train runs at a speed of 92 kmph to cover a distance of 184 km and then at a speed of 102 kmph to cover a distance of 204 km. Find the average speed of the train for the entire distance.

Ans ✘ 1. 98 kmph

✔ 2. 97 kmph

✘ 3. 92 kmph

✘ 4. 134 kmph

Q.7 The value of
$$\frac{5}{9} + \frac{1}{9} + \frac{3}{18} + \frac{3}{9} - 1 =$$

Ans ✔ 1. $\dfrac{3}{18}$

✘ 2. $\dfrac{1}{18}$

✘ 3. $-\dfrac{7}{18}$

✘ 4. $\dfrac{9}{18}$

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Q.8   A sphere of radius 3 cm is put into water contained in a cylinder with a base radius of 12 cm. If the sphere is completely immersed in the water, the water level in the cylinder rises by:

Ans   ✗ 1. $\dfrac{1}{3}$ cm

      ✗ 2. 3 cm

      ✗ 3. 4 cm

      ✓ 4. $\dfrac{1}{4}$ cm

Q.9   Vaishali and Vanya invest in a business in the ratio 35 : 8. If total profit is Rs. 3655, then what is difference between the profit (in Rs.) of Vaishali and Vanya?

Ans   ✗ 1. 2195

      ✓ 2. 2295

      ✗ 3. 2345

      ✗ 4. 2395

Q.10 A sum, when invested at 20% simple interest per annum, amounts to ₹3120 after 3 years. What is the simple interest (in ₹) on the same sum at the same rate in 1 year?

Ans   ✗ 1. 1560

      ✗ 2. 195

      ✗ 3. 780

      ✓ 4. 390

Q.11 During sale, Raghav bought a notebook marked for ₹35 at 20% discount and a pen marked for ₹100 at 79% discount. How much (in ₹) did he save due to sale?

Ans   ✗ 1. 83

      ✗ 2. 85

      ✓ 3. 86

      ✗ 4. 89

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Q.12 Express the following as a vulgar fraction.

$$0.04\overline{3} + 2$$

Ans ✔ 1. $2\dfrac{13}{300}$

✘ 2. $2\dfrac{13}{900}$

✘ 3. $2\dfrac{17}{300}$

✘ 4. $2\dfrac{17}{900}$

Q.13 The volume of a conical tent is 9240 m^3 and the area of its base is 1386 m^2.

What is the length of the canvas required to build the tent if the width of canvas is 3 m?

(Use $\pi = \dfrac{22}{7}$)

Ans ✘ 1. 687 m

✘ 2. 568 m

✘ 3. 432 m

✔ 4. 638 m

Q.14 Amit sold 171 chairs and had a gain equal to the selling price of 71 chairs. What is his profit percentage?

Ans ✘ 1. 81%

✘ 2. 66%

✔ 3. 71%

✘ 4. 76%

Q.15 A number when divided by 798 leaves 45 as remainder. If the same number is divided by 21, what will be the remainder?

Ans ✘ 1. 2

✔ 2. 3

✘ 3. 5

✘ 4. 4

Q.16 Bhanu covers 790 km in a boat in 30 hours against the stream and he takes 12 hours with the stream then find the speed of the stream?

Ans ✘ 1. 28.05 km/h

✔ 2. 19.75 km/h

✘ 3. 23.95 km/h

✘ 4. 15.59 km/h

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Q.17 If the average of three consecutive numbers is 42, find the second smallest of these numbers.

Ans ✔ 1. 42

✘ 2. 44

✘ 3. 41

✘ 4. 43

Q.18 Yamini and Zareen together invested ₹37200 in a business. At the end of the year, out of a total profit of ₹5000, Yamini's share was ₹1300. What was the investment of Zareen?

Ans ✘ 1. ₹26605

✘ 2. ₹28830

✘ 3. ₹26470

✔ 4. ₹27528

Q.19 The population of a village was 130000. It increased by 15% in the first year and increased by 30% in the second year. Its population after two years is _____.

Ans ✘ 1. 169000

✘ 2. 149500

✔ 3. 194350

✘ 4. 188500

Q.20 A man walks to a viewpoint and returns to the starting point by his car maintaining constant speed and thus takes a total time of 8 hours 45 minutes. He would have gained 5 hours by driving both ways. How long would it have taken for him to walk both ways with same walking speed?

Ans ✘ 1. 12 hours 45 minutes

✘ 2. 14 hours 15 minutes

✘ 3. 13 hours 30 minutes

✔ 4. 13 hours 45 minutes

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Q.21 A milk vendor has 40 litres of a 40% milk solution. How many litres of pure water should be added so that the resulting mixture is a 25% milk solution?

Ans ✔ 1. 24

✘ 2. 25

✘ 3. 23

✘ 4. 20

Q.22 Evaluate 124 ^{2}

Ans ✘ 1. 15356

✘ 2. 15366

✘ 3. 15406

✔ 4. 15376

Q.23 A train runs at a speed of 114 kmph to cover a distance of 228 km and then at a speed of 93 kmph to cover a distance of 372 km. Find the average speed of the train for the entire distance.

Ans ✘ 1. 113 kmph

✘ 2. 125 kmph

✔ 3. 100 kmph

✘ 4. 60 kmph

Q.24 The price (per litre) of petrol increases by 60%. By what percent should its consumption be reduced such that the expenditure on it increases by 28% only?

Ans ✘ 1. 73%

✔ 2. 80%

✘ 3. 79%

✘ 4. 74%

Q.25 If at same rate of interest, in 2 years, the simple interest is ₹60 and compound interest is ₹63, then what is the principal (in ₹)?

Ans ✘ 1. 304

✘ 2. 293

✘ 3. 295

✔ 4. 300

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Q.26 Three partners invested in a business in the ratio 7:2:5. They invested their capitals for 11 months, 7 months and 12 months, respectively. What was the ratio of their profits?

Ans ✗ 1. 79:14:60

✔ 2. 77:14:60

✗ 3. 78:14:60

✗ 4. 76:14:60

Q.27 A shopkeeper sells an item for ₹960.4 after giving two successive discounts of 30% and 80% on its marked price. Had he not given any discount, he would have earned a profit of 40%. What is the cost price (in ₹) of the item?

Ans ✗ 1. 4908

✔ 2. 4900

✗ 3. 4931

✗ 4. 4920

Q.28 Study the given table and answer the question that follows.
The given table shows data regarding bats produced by different companies. The companies produce plastic and wooden bats. Information about plastic bats is given as the percentage of the total number of bats produced, and that of wooden bats is given as the ratio of the number of bats of brand X to that of brand Y.
Each company produces a total of 25,000 bats.

Name of the company	Plastic bats (%)	Wooden bats X : Y
A	55.	21 : 4
B	70.	8 : 7
C	45.	6 : 19
D	75.	41 : 14
E	60.	7 : 15
F	40.	5 : 6

What is the ratio of wooden bats of brand Y manufactured by company C to the total number of wooden bats manufactured by companies A and F?

Ans ✗ 1. 430 : 613

✗ 2. 125 : 872

✔ 3. 209 : 525

✗ 4. 870 : 433

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Q.29 If $x = 3 + \sqrt{6}$ and $y = 3 - \sqrt{6}$ then the value of $x^2 + y^2$ is:

Ans   ✔ 1. 30

✘ 2. 25

✘ 3. 70

✘ 4. 36

Q.30 Given that $26^{0.89} = x$, $26^{0.31} = y$ and $x^z = y^2$, then the value of z is close to:

Ans   ✔ 1. 0.7

✘ 2. -0.41

✘ 3. 1.33

✘ 4. 2.47

Q.31 A can contains a mixture of two liquids P and Q in the ratio 8 : 7. When 5 Litre of the mixture are drawn off and the can is filled with Q, the ratio of P and Q becomes 2 : 3. How many litres of liquid P was contained by the can initially?

Ans   ✘ 1. $\dfrac{28}{3}$ L

✔ 2. $\dfrac{32}{3}$ L

✘ 3. $\dfrac{25}{3}$ L

✘ 4. $\dfrac{35}{3}$ L

Q.32 The smallest natural number which is divisible by 33, 6, 8 and 16 is:

Ans   ✘ 1. 500

✔ 2. 528

✘ 3. 550

✘ 4. 502

Q.33 If at same rate of interest, in 2 years, the simple interest is ₹60 and compound interest is ₹62, then what is the principal (in ₹)?

Ans   ✘ 1. 454

✘ 2. 445

✘ 3. 443

✔ 4. 450

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Q.34 LCM and HCF of two numbers are 162 and 27 respectively. If one of the numbers is 54, then find the other number.

Ans ✗ 1. 80

✗ 2. 78

✗ 3. 82

✓ 4. 81

Q.35 The average of 7 numbers is 45. If each number is decreased by 4, what will the new average be?

Ans ✗ 1. 45

✗ 2. 37

✗ 3. 7

✓ 4. 41

Section : **General Intelligence and Reasoning**

Q.36 Which of the following letter-clusters should replace # and % so that the pattern and relationship followed between the letter-cluster pair on the left side of :: is the same as that on the right side of ::?
: BDF :: GIK : %

Ans ✗ 1. # = WYB, % = LNP

✓ 2. # = WYA, % = LNP

✗ 3. # = WYA, % = LNO

✗ 4. # = XYA, % = LNP

Q.37 In a certain code language, 'love conquers all' is coded as 'lk mp jo' and 'all or nothing' is coded as 'ap tu mp'. How is 'all' coded in the given language?

Ans ✗ 1. jo

✗ 2. tu

✗ 3. ap

✓ 4. mp

Q.38 Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.

M

7 9 5 6 4 RP

N

Ans ✓1. ꟼꓤ Ꮞꝺ S ꘔ ꘔ

✗2. ꟼꓤꝺS ꘔ

✗3. RPꝺ S ꘔ Ꮞ

✗4. ꟼꓤ Ꮞ ꝺ S 79

Q.39 Select the letter-cluster from among the given options that can replace the question mark (?) in the following series.

IEU GHQ ? CNI AQE

Ans ✗1. EJL

✓2. EKM

✗3. ELN

✗4. ELM

Q.40 This question is based on the following words.

YEN ARE FEW GOT

In each of the words, each vowel is changed to the letter following it in the English alphabetical order and each consonant is changed to the letter preceding it in the English alphabetical order. In how many letter-clusters thus formed, will no vowel appear?

Ans ✗ 1. 3

✗ 2. 2

✗ 3. 1

✔ 4. 4

Q.41 In a certain code language,

'A + B' means 'A is the daughter of B',
'A − B' means 'A is the brother of B',
'A x B' means 'A is the wife of B' and
'A ÷ B' means 'A is the father of B'.

How is W related to Y if W + E x R− T ÷ Y?

Ans ✗ 1. Father's brother's wife

✗ 2. Mother's brother's daughter

✔ 3. Father's brother's daughter

✗ 4. Mother's brother's wife

Q.42 Select the term from among the given options that can replace the question mark (?) in the following series.

FLA 29 IJE 22 ? OFM 2 RDQ -11

Ans ✔ 1. LHI 13

✗ 2. GKJ 11

✗ 3. HGG 12

✗ 4. LVG 10

Q.43 Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusion(s) logically follow(s) from the statements.

Statements:
All jeans are trousers.
All trousers are pants.
No pant is a tie.

Conclusions:
(I) No jeans is a tie.
(II) No trouser is a tie.

Ans ✗ 1. Neither conclusion (I) nor (II) follows.

✔ 2. Both conclusions (I) and (II) follow.

✗ 3. Only conclusion (II) follows.

✗ 4. Only conclusion (I) follows.

Q.44 Three of the following four letter-clusters are alike in a certain way and thus form a group. Which is the letter-cluster that does NOT belong to that group? (Note: The odd one out is not based on the number of consonants/vowels or their positions in the letter-cluster.)

Ans ✔ 1. BYVQ

✗ 2. ROMG

✗ 3. VSQK

✗ 4. AXVP

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Q.45 Each letter in the word BEHALF is changed to the letter immediately succeeding it in the English alphabetical order and then all the letters thus formed are arranged in alphabetical order. Which of the following letters will be fourth from the left in the new group of letters thus formed?

Ans ✗ 1. C

✗ 2. M

✗ 3. F

✓ 4. G

Q.46 Seven people, Q, R, S, T, U, V and Y, are sitting around a circular table facing the centre of the table. Only one person sits between U and Q when counted from the left of Q. S sits fourth to the left of T. V sits third to the left of R. V sits to the immediate left of S. Y is not an immediate neighbour of V. How many people sit between Y and Q when counted from the right of Y?

Ans ✗ 1. Four

✗ 2. One

✗ 3. Two

✓ 4. Three

Q.47 Navin ranked 19th from the bottom and 18th from the top in his class. How many students are there in his class?

Ans ✗ 1. 34

✗ 2. 33

✗ 3. 35

✓ 4. 36

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Q.48 Refer to the following letter, symbol series and answer the question that follows. Counting to be done from left to right only.

(Left) L U * P @ D £ A Ω F $ * N Q & R # Y % C K & M (Right)

If all the letters are dropped from the series, which of the following will be sixth from the right?

Ans ✗ 1. &

✔ 2. $

✗ 3. Ω

✗ 4. %

Q.49 A $ B means 'A is the sister of B',

A @ B means 'A is the daughter of B',

A - B means 'A is the son of B' and

A * B means 'A is the father of B'.

Based on the above information, which of the following means that S is the sister's son of M?

Ans ✔ 1. S - T $ E @ A * M

✗ 2. S $ T * E - A @ M

✗ 3. S * T - E $ A @ M

✗ 4. S @ T - E $ A * M

Q.50 Which of the following letter-clusters should replace # and % so that the pattern and relationship followed between the letter-cluster pair on the left side of :: is the same as that on the right side of :: ?

: PRW :: JLQ : %

Ans ✗ 1. # = LPY, % = HJM

✔ 2. # = RTY, % = HJO

✗ 3. # = LKY, % = HMJ

✗ 4. # = RKJ, % = HMJ

Q.51 Identify the figure given in the options which when put in place of the question mark (?) will logically complete the series.
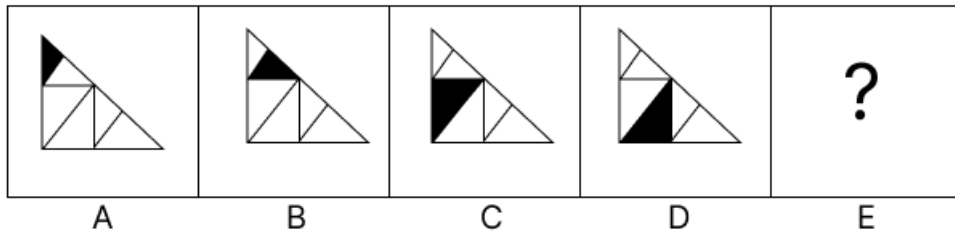
Ans   1.
✗

       2.
✗

       3.
✗

       4.
✔

Q.52 Rohit starts from Point A and drives 5 km towards East. He then takes a left turn, drives 2 km, turns right and drives 4 km. He then takes a right turn and drives 2 km. He takes a final right turn, drives 1 km and stops at Point B. How far (shortest distance) and towards which direction should he drive in order to reach Point A again? (All turns are 90 degree turns only unless specified.)

Ans ✗ 1. 5 km towards West

✗ 2. 5 km towards East

✗ 3. 8 km towards North

✔ 4. 8 km towards West

Q.53 The 3 figures given below are alike in a certain way as they share certain feature(s). Select the option that shares the same features as the given figures.
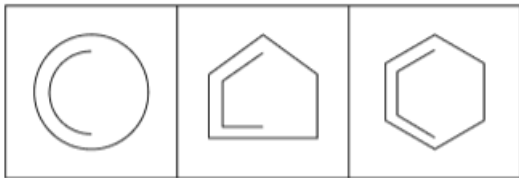
Ans 1.

✗

2.

✗

3.

✗

4.

✔

Q.54 In a certain code language, 'EARS' is coded as '5273' and 'DIAL' is coded as '4631'. What is the code for 'A' in the given code language?

Ans ✗ 1. 2

✗ 2. 4

✔ 3. 3

✗ 4. 6

Q.55 Tushar starts from Point A and drives 15 km towards south. He then takes a right turn, drives 13 km, turns right and drives 19 km. He then takes a right turn and drives 18 km. He takes a final right turn, drives 4 km and stops at Point P. How far (shortest distance) and towards which direction should he drive in order to reach Point A again? (All turns are 90 degrees turns only unless specified)

Ans ✗ 1. 4 km to the west

✗ 2. 3 km to the west

✔ 3. 5 km to the west

✗ 4. 6 km to the west

Q.56 Each of the digits in the number 8374516 is arranged in ascending order from left to right. What will be the sum of the digits that are second from the left and second from the right in the new number thus formed?

Ans ✗ 1. 14

✗ 2. 11

✗ 3. 12

✔ 4. 10

Q.57 If 1 is added to each odd digit and 2 is subtracted from each even digit in the number 3647582, how many digits will appear more than once in the new number thus formed?

Ans ✔ 1. 2

✗ 2. 3

✗ 3. 0

✗ 4. 1

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Q.58 A, B, C, D, E, F and G sit around a circular table facing centre. Only two people sit between F and D when counted from the right of F. Only three people sit between B and G when counted from the right of G. D sits to the immediate right of G. A sits to the immediate right of E. How many people sit between A and G when counted from the right of G?

Ans ✔ 1. 2

✘ 2. 3

✘ 3. 4

✘ 4. 1

Q.59 Which numbers should come in place of the question marks (?) in the same sequence to make the series logically complete?
86 90 99 115 140 ? 225 ?

Ans ✘ 1. 192, 323

✔ 2. 176, 289

✘ 3. 168, 193

✘ 4. 182, 293

Q.60 Based on the English alphabetical order, three of the following four letter-clusters are alike in a certain way and thus form a group. Which letter-cluster DOES NOT belong to that group?

(Note: The odd man out is not based on the number of consonants/vowels or their position in the letter-cluster.)

Ans ✘ 1. PRU

✔ 2. SUZ

✘ 3. CEH

✘ 4. LNQ

Q.61 Three of the following four letter-cluster pairs are alike in a certain way and thus form a group. Which is the letter-cluster pair that does NOT belong to that group?

(Note: The odd one out is not based on the number of consonants/vowels or their positions in the letter-cluster.)

Ans ✔ 1. KC - GM

✘ 2. OG - KP

✘ 3. QI - MR

✘ 4. ME - IN

Q.62 What will come in the place of the question mark (?) in the following equation, if '−' and '÷' are interchanged and '×' and '+' are interchanged?

14 + 32 − 8 × 5 ÷ 2 = ?

Ans ✘ 1. 56

✘ 2. 57

✔ 3. 59

✘ 4. 58

Q.63 Which of the following letter-clusters should replace # and % so that the pattern and relationship followed between the letter-cluster pair on the left side of :: is the same as that on the right side of ::?

: JLO :: GIL : %

Ans ✔ 1. # = EGJ; % = LNQ

✘ 2. # = EGI; % = LNQ

✘ 3. # = FGJ; % = LNQ

✘ 4. # = EGJ; % = LNO

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Q.64 UVW ranked 21st from the top and 64th from the bottom in his class. How many students are there in his class?

Ans   ✗ 1. 88

   ✗ 2. 78

   ✓ 3. 84

   ✗ 4. 81

Q.65 Refer to the following letter, symbol series and answer the question. Counting to be done from left to right only.

(Left) @ 8 $ 7 & + 2 & % 4 6 * £ 5 3 Ω 9 # 1 (Right)

How many such symbols are there each of which is immediately preceded by a number and also immediately followed by another number?

Ans   ✗ 1. 1

   ✗ 2. 2

   ✓ 3. 3

   ✗ 4. 4

Q.66 Seven boxes, A, B, C, D, E, F and G, are kept one over the other but not necessarily in the same order. G is kept immediately above E. F is kept immediately above D. Only A is kept above B. Only two boxes are kept above G. F is not kept at third position from the bottom. How many boxes are kept above F?

Ans   ✓ 1. 5

   ✗ 2. 3

   ✗ 3. 2

   ✗ 4. 4

Q.67 Select the set in which the numbers are related in the same way as are the numbers of the following sets.

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 – Operations on 13 such as adding/subtracting/multiplying to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

(27, 46, 19)

(8, 17, 9)

Ans ✗ 1. (18, 43, 22)

✗ 2. (23, 39, 13)

✓ 3. (22, 40, 18)

✗ 4. (44, 70, 23)

Q.68 Two sets of numbers are given below. In each set of numbers, certain mathematical operation(s) on the first number result(s) in the second number. Similarly, certain mathematical operation(s) on the second number result(s) in the third number and so on. Which of the given options follows the same set of operations as in the given sets?

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 – Operations on 13 such as adding / subtracting / multiplying to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

1 - 2 - 4 - 8 ; 9 - 10 - 20 - 40

Ans ✓ 1. 4 - 5 - 10 - 20

✗ 2. 6 - 7 - 14 - 30

✗ 3. 19 - 20 - 20 - 30

✗ 4. 14 - 15 - 30 - 40

Q.69 G, L, O, F and S each has a different age. Only S is elder than G. Only two people is aged between G and O. F is younger than L. Who is the third youngest?

Ans ✓ 1. L

✗ 2. O

✗ 3. G

✗ 4. F

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Q.70 In a certain code language, 'learn from mistakes' is coded as 'lm tu bp' and 'from here on' is coded as 'mp tw bp'. How is 'from' coded in the given language?

Ans ✗ 1. lm

✗ 2. tw

✗ 3. tu

✓ 4. bp

Section : General Awareness

Q.71 The 130th birth anniversary of Satyendra Nath Bose was observed on 1 January 2024. He was a renowned _____.

Ans ✗ 1. literary

✗ 2. zoologist

✓ 3. physicist

✗ 4. botanist

Q.72 Which of the following is the correct definition of jobless growth?

Ans ✗ 1. It is an economic phenomenon in which an economy experiences decreasing level of growth.

✓ 2. It is an economic phenomenon in which an economy experiences growth while maintaining or decreasing its level of employment.

✗ 3. It is an economic phenomenon in which an economy experiences decreasing level of employment.

✗ 4. It is an economic phenomenon in which an economy experiences low level of employment in a relative term.

Q.73 The stone used for the construction of the Basilica of Bom Jesus in Goa was brought from which of the following places?

Ans ✗ 1. Jaipur

✓ 2. Bassein

✗ 3. Gaya

✗ 4. Hamirpur

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Q.74 Who became the first Indian woman to win two gold medals at the Paralympic Games after winning a gold medal at Paris Paralympic Games 2024?

Ans ✗ 1. Deepthi Jeevanji

✗ 2. Rubina Francis

✗ 3. Simran Sharma

✓ 4. Avani Lekhara

Q.75 What significant change was implemented in India's New Economic Policy of 1991 to expand privatisation?

Ans ✓ 1. Reducing the list of industries reserved for public sector control

✗ 2. Establishing more Public Sector Undertakings (PSUs) across various sectors

✗ 3. Centralising government control over key industries

✗ 4. Increasing the number of industries reserved for public sector control

Q.76 Who among the following reinterpreted verses from the Koran to argue for women's education?

Ans ✗ 1. Begum Anis Kidwai

✓ 2. Mumtaz Ali

✗ 3. Baji Jamalunnisa

✗ 4. Bibi Amtus Salam

Q.77 In January 2024, India had decided to formally join the Square Kilometer Array (SKA) project, an international scientific collaboration working to build the world's largest _____.

Ans ✗ 1. particle accelerator

✗ 2. space station

✗ 3. optical telescope

✓ 4. radio telescope

Q.78 The Constitution ensures the security of the tenure of the Chief Election Commissioner and Election Commissioners. They are appointed for _____ years term or continue till the age of 65, whichever is earlier.

Ans ✗ 1. 10

✗ 2. 4

✗ 3. 5

✔ 4. 6

Q.79 A nutrient which acts as a cushion to the vital organs and protects them from shocks and external injuries is:

Ans ✗ 1. carbohydrate

✗ 2. protein

✔ 3. fat

✗ 4. vitamin

Q.80 Name the main method used for thickening sauces and in the production of bread and pastries.

Ans ✗ 1. Retrogradation

✗ 2. Caramelisation

✗ 3. Dextrinisation

✔ 4. Gelatinisation

Q.81 Which of the following issues has been faced by India since independence?

Ans ✗ 1. Agriculture productivity

✗ 2. Globalisation

✔ 3. Poverty

✗ 4. Literacy

Q.82 In which of the following years was the National Commission for Women established?

Ans ✗ 1. 1991

✗ 2. 2004

✔ 3. 1992

✗ 4. 1985

Q.83 In June 2024, which of the following portfolios was allotted to Anitha Vangalapudi in the Andhra Pradesh Cabinet?

Ans ✔ 1. Home Minister of Andhra Pradesh

✗ 2. Minister of Panchayat Raj and Rural Development of Andhra Pradesh

✗ 3. Minister of Information Technology and Communication of Andhra Pradesh

✗ 4. Deputy Chief Minister of Andhra Pradesh

Q.84 Which of the following kings of the Vijayanagara Empire assumed the title of Yavanarajya Sthapanacharya?

Ans ✗ 1. Sadasiva Raya

✗ 2. Achyuta Deva Raya

✗ 3. Rama Raya

✔ 4. Krishnadevaraya

Q.85 Which of the following musical forms is intimately related to classical Carnatic music?

Ans ✔ 1. Gitam

✗ 2. Firdost

✗ 3. Bhand Pather

✗ 4. Wanvun

Q.86 How do rural development programmes like the Self-Help Group (SHG) initiative contribute to gender equality in rural India?

Ans ✔ 1. By enhancing women's access to finance, leadership roles and decision-making

✗ 2. Solely by improving agricultural productivity

✗ 3. By providing women with employment opportunities only

✗ 4. Primarily through educational programmes

Q.87 Who among the following was a classical Hindustani singer?

Ans ✗ 1. V Sheshanna

✗ 2. MS Subbulakshmi

✔ 3. Begum Akhtar

✗ 4. TK Iyengar

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Q.88 Which of the following is the correct function of marketed surplus?

Ans ✔ 1. Marketed Surplus = Total farm output produced by the farmer - Own consumption of farm output

✘ 2. Marketed Surplus = Total farm produce - Previous years stock in the market

✘ 3. Marketed Surplus = Total supply of the market - Total demand

✘ 4. Marketed Surplus = Total demand in the market - Total supply

Q.89 Which of the following census years reported the highest sex ratio in India?

Ans ✘ 1. 1951

✘ 2. 2011

✔ 3. 1901

✘ 4. 1991

Q.90 In which of the following years did the government sell its stake in RCON International Limited?

Ans ✔ 1. 2023

✘ 2. 2015

✘ 3. 2018

✘ 4. 2021

Q.91 Which of the following is NOT provided in Part IV A (Fundamental Duties) of the Indian Constitution?

Ans ✔ 1. To respect our parents and teachers

✘ 2. To preserve the rich heritage of our composite culture

✘ 3. To promote spirit of brotherhood amongst all people of India

✘ 4. To respect the National Flag

Q.92 Who were India's flag-bearers at the Paris 2024 Paralympics closing ceremony?

Ans ✘ 1. Avani Lekhara and Nishad Kumar

✔ 2. Harvinder Singh and Preethi Pal

✘ 3. Bhagyashree Jadhav and Sumit Antil

✘ 4. Manish Narwal and Yogesh Kathuniya

Q.93 Which of the following is NOT one of the new criminal laws introduced in 2024?

Ans   ✔ 1. Indian Penal Code (IPC)

    ✘ 2. Bharatiya Nagarik Suraksha Sanhita (BNSS)

    ✘ 3. Bharatiya Sakshya Adhiniyam (BSA)

    ✘ 4. Bharatiya Nyaya Sanhita (BNS)

Q.94 Which of the following river systems is responsible for the formation of the Sundarbans delta?

Ans   ✘ 1. Cauvery

    ✘ 2. Sindhu

    ✘ 3. Godavari

    ✔ 4. Ganga-Brahmaputra-Meghna

Q.95 Who among the following wrote the autobiography 'Ardhakathanak'?

Ans   ✔ 1. Banarasidas

    ✘ 2. Narmad

    ✘ 3. Rassundari Devi

    ✘ 4. Valmiki

Q.96 Which of the following ports is NOT correctly linked to its location?

Ans   ✘ 1. Tuticorin Port - Tamil Nadu

    ✘ 2. Kochi Port - Kerala

    ✘ 3. Mormugao Port - Goa

    ✔ 4. Visakhapatnam Port - Telangana

Q.97 Joint military exercise 'Harimau Shakti-2022' commenced on 28th November, which is an annual training event between the Indian Army and which of the following armies?

Ans   ✔ 1. Malaysia

    ✘ 2. Singapore

    ✘ 3. Indonesia

    ✘ 4. Japan

Q.98 The KAZA 2024, Heads of State inaugural Summit by Members of the five-nation Kavango-Zambezi Trans-Frontier Conservation Area (KAZA-TFCA) was held in which month at Livingstone, Zambia?

Ans   ✗ 1. August 2024

     ✗ 2. April 2024

     ✗ 3. July 2024

     ✓ 4. May 2024

Q.99 In which of the following years was the Ethics Committee in the Rajya Sabha constituted?

Ans   ✗ 1. 1999

     ✗ 2. 1995

     ✓ 3. 1997

     ✗ 4. 2000

Q.100 Which of the following has built the Atal Tunnel?

Ans   ✗ 1. National Highways Authority of India (NHAI)

     ✗ 2. Indian Railways

     ✗ 3. Pradhan Mantri Gram Sadak Yojana

     ✓ 4. Border Roads Organisation

Q.101 Match the following correctly.

	Set-I		Set-II
a.	Panini	1.	Maalvikagnimitram
b.	Hala	2.	Mahabhashya
c.	Kalidas	3.	Ashtadhyayi
d.	Patanjali	4.	Gaathasaptshati

Ans   ✓ 1. a - 3; b - 4; c - 1; d - 2

     ✗ 2. a - 3; b - 4; c - 2; d - 1

     ✗ 3. a - 2; b - 3; c - 4; d - 1

     ✗ 4. a - 4; b - 3; c - 2; d - 1

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Q.102 The right-hand rule of induced current was given by:

Ans   ✗ 1. Oersted

     ✗ 2. Faraday

     ✗ 3. Ampere

     ✓ 4. Fleming

Q.103 Which of the following statements is FALSE about the Deccan Plateau?

Ans   ✗ 1. The height of the Western Ghats progressively increases from north to south.

     ✗ 2. The Western Ghats are higher than the Eastern Ghats.

     ✓ 3. Mahendragiri is the highest peak in the Western Ghats.

     ✗ 4. The Eastern Ghats stretch from the Mahanadi Valley to the Nigiris in the south.

Q.104 Which of the following was the original name of Sher Shah Suri,the founder of Suri dynasty?

Ans   ✓ 1. Farid Khan

     ✗ 2. Murtaza Khan

     ✗ 3. Ulugh khan

     ✗ 4. Adham Khan

Q.105 Which of the following types of forests has trees that are mainly scattered with long roots and succulent stems?

Ans   ✗ 1. Montane Forests

     ✗ 2. Mangrove Forests

     ✗ 3. Tropical Deciduous Forests

     ✓ 4. Tropical Thorn Forests and Scrubs

Q.106 In which of the following years was the Satya Shodhak Samaj founded?

Ans   ✗ 1. 1885

     ✗ 2. 1776

     ✓ 3. 1873

     ✗ 4. 1794

Q.107 An optical instrument used in a system of prisms, lenses or mirrors to reflect images through a tube is called:

Ans ✗ 1. binocular

✓ 2. periscope

✗ 3. kaleidoscope

✗ 4. telescope

Q.108 In which of the following ways can the utility be expressed in cardinal utility analysis?

Ans ✓ 1. In numbers

✗ 2. In quality

✗ 3. In rank

✗ 4. In order

Q.109 How many subjects are there in the 'Union List' as of May 2024?

Ans ✗ 1. 97 subjects

✗ 2. 98 subjects

✗ 3. 66 subjects

✓ 4. 100 subjects

Q.110 Arrange the following rulers of the Pala dynasty in the chronological order.

Ans ✓ 1. Dharampal < Devpal < Mahipal < Naypal

✗ 2. Mahipal < Dharampal < Naypal < Devpal

✗ 3. Devpal < Dharampal < Mahipal < Naypal

✗ 4. Mahipal < Dharampal < Devpal < Naypal

Q.111 In February 2024, Genome India Project was completed. Which of the following statements is NOT true about Genome India Project?

Ans ✗ 1. It was initiated in 2020.

✗ 2. The aim was to build a reference genome and study genetic diversity among Indians.

✓ 3. 1 million genome samples were to be collected across the country from citizens of India.

✗ 4. The project was funded and coordinated by the Department of Biotechnology, Govt. of India.

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Q.112 Which of the following Union Territories of India is having the highest decadal growth rate of population as per 2011 census?

Ans   ✗ 1. Lakshadweep

     ✗ 2. Puducherry

     ✓ 3. Dadar and Nagar Haveli

     ✗ 4. Chandigarh

Q.113 Which of the following methods is most commonly used nowadays to determine nitrogen and protein content in foods?

Ans   ✗ 1. Paradkar method

     ✗ 2. Barfoed method

     ✓ 3. Kjeldahl method

     ✗ 4. Nessler's method

Q.114 N Chandrababu Naidu, who took oath as Andhra Pradesh Chief Minister on 12 June 2024, belongs to which of the following political parties?

Ans   ✗ 1. Jana Sena Party (JSP)

     ✓ 2. Telugu Desam Party (TDP)

     ✗ 3. Bhartiya Janata Party (BJP)

     ✗ 4. YSR Congress Party (YSRCP)

Q.115 Which of the following was the strength of the Judges of Supreme Court of India after the commencement of the Constitution in 1950?

Ans   ✓ 1. 8

     ✗ 2. 10

     ✗ 3. 6

     ✗ 4. 12

Q.116 Where was the joint bilateral training 'Exercise Harimau Shakti 2023' conducted?

Ans   ✗ 1. New Delhi, India

     ✓ 2. Umroi Cantonment, India

     ✗ 3. Kuala Lumpur, Malaysia

     ✗ 4. Kota Kinabalu, Malaysia

Q.117 _____ is a natural source of acetic acid.

Ans ✗ 1. Orange

✔ 2. Vinegar

✗ 3. Tamarind

✗ 4. Tomato

Q.118 Who among the following was NOT associated with the Hindustan Republican Association (H.R.A.)?

Ans ✗ 1. Ashfaqulla Khan

✔ 2. Subhash Chandra Bose

✗ 3. Sachindra Nath Bakshi

✗ 4. Ram Prasad Bismil

Q.119 The group of North Atlantic Treaty Organization (NATO) has how many member countries, as on 30 September 2024?

Ans ✔ 1. 32

✗ 2. 12

✗ 3. 39

✗ 4. 21

Q.120 Which of the following Acts regulates the acquisition of Indian Citizenship?

Ans ✗ 1. Indian Citizenship Act, 1948

✗ 2. Indian Citizenship Act, 1947

✔ 3. Indian Citizenship Act, 1955

✗ 4. Indian Citizenship Act, 1960

2024/12/10-23:19:17

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रेल भर्ती बोर्ड / **RAILWAY RECRUITMENT BOARDS**
सी ई एन आर पी एफ - ०१/२०२४ - CEN RPF - 01/2024

Test Date	12/12/2024
Test Time	4:00 PM - 5:30 PM
Subject	Recruitment of Sub Inspector Executive in Railway Protection Force and Railway Protection Special Force

* Note
Correct Answer will carry 1 mark per Question.
Incorrect Answer will carry 1/3 Negative mark per Question.

1. Options shown in green color with a tick icon are correct.
2. Chosen option on the right of the question indicates the option selected by the candidate.

Section : Arithmetic

Q.1 Three partners invested in a business in the ratio 2:7:8. They invested their capitals for 4 months, 1 months and 10 months, respectively. What was the ratio of their profits?

Ans ✗ 1. 6:7:80

✗ 2. 10:7:80

✗ 3. 7:7:80

✔ 4. 8:7:80

Q.2 LCM and HCF of two numbers are 108 and 9 respectively. If one of the numbers is 36, then find the other number.

Ans ✗ 1. 28

✔ 2. 27

✗ 3. 30

✗ 4. 25

Q.3 The sides of a triangle are 16 cm, 30 cm, and 34 cm. What is its area? (in cm^2)

Ans ✔ 1. 240

✗ 2. 270

✗ 3. 225

✗ 4. 257

Q.4 At what rate per cent per annum will a certain sum of money multiply itself by 97 times in 2 years, the interest being compounded annually? [Give your answer correct to 1 decimal place.]

Ans ✗ 1. 881.8

✗ 2. 884.6

✔ 3. 884.8

✗ 4. 887.2

Q.5 $\frac{(a^8 \times b^6 \times c^9)}{(a^4 \times b^9 \times c^9)}$ in simplified form is:

Ans ✗ 1. $(a^{-6}) \times (b^{-1}) \times (c^6)$

✗ 2. $(a^{10}) \times (b^{-1}) \times (c^{-4})$

✗ 3. $(a^{-7}) \times (b^{-8}) \times (c^1)$

✔ 4. $(a^4) \times (b^{-3}) \times (c^0)$

Q.6 The average price of three items of furniture is Rs 15885. If their prices are in the ratio 3:5:7, the price of the costliest item (in Rs) is

Ans ✗ 1. 3177

✗ 2. 5295

✗ 3. 7413

✔ 4. 22239

Q.7 The value of
$$\frac{4}{6} + \frac{4}{6} + \frac{2}{12} + \frac{4}{6} - 4 =$$

Ans ✗ 1. $-\frac{23}{12}$

✔ 2. $-\frac{22}{12}$

✗ 3. $-\frac{25}{12}$

✗ 4. $-\frac{18}{12}$

Q.8 A train runs at a speed of 96 kmph to cover a distance of 288 km and then at a speed of 126 kmph to cover a distance of 252 km. Find the average speed of the train for the entire distance.

Ans ✗ 1. 86 kmph

✗ 2. 90 kmph

✔ 3. 108 kmph

✗ 4. 158 kmph

Q.9 In a cluster, 3 weavers can make 12 sarees in 4 days. Find the average number of sarees that can be made by each weaver in a day.

Ans ✔ 1. 1

✗ 2. 2

✗ 3. 2.5

✗ 4. 1.5

Q.10 A shopkeeper sells an item for ₹583.2 after giving two successive discounts of 25% and 40% on its marked price. Had he not given any discount, he would have earned a profit of 62%. What is the cost price (in ₹) of the item?

Ans ✗ 1. 824

✔ 2. 800

✗ 3. 831

✗ 4. 838

Q.11 The smallest natural number which is divisible by 15, 60, 6 and 17 is:

Ans ✗ 1. 1065

✗ 2. 1106

✔ 3. 1020

✗ 4. 1030

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Q.12 During sale, Raghav bought a notebook marked for ₹100 at 53% discount and a pen marked for ₹40 at 85% discount. How much (in ₹) did he save due to sale?

Ans   ✗ 1. 85

     ✔ 2. 87

     ✗ 3. 90

     ✗ 4. 89

Q.13 Which of the following fractions is the largest?

$$\frac{4}{9}, \frac{4}{26}, \frac{56}{71}, \frac{28}{81}$$

Ans   ✗ 1. $\frac{28}{81}$

     ✗ 2. $\frac{4}{26}$

     ✔ 3. $\frac{56}{71}$

     ✗ 4. $\frac{4}{9}$

Q.14 A can is completely filled with milk. 6 litre of milk is taken out of the can and is filled with water. This operation is performed four more times. Now, the ratio of milk and water in the can is 32 : 211. What is the volume of the can?

Ans   ✗ 1. 21 litre

     ✗ 2. 15 litre

     ✗ 3. 20 litre

     ✔ 4. 18 litre

Q.15 LCM and HCF of two numbers are 180 and 12 respectively. If one of the numbers is 36, then find the other number.

Ans   ✗ 1. 58

     ✗ 2. 61

     ✗ 3. 62

     ✔ 4. 60

Q.16 Isha and Anshu together invested ₹44300 in a business. At the end of the year, out of a total profit of ₹7000, Isha's share was ₹1400. What was the investment of Anshu?

Ans   ✗ 1. ₹37060

     ✔ 2. ₹35440

     ✗ 3. ₹33845

     ✗ 4. ₹35190

Q.17 Tarika has a decorative wall − hanging in the shape of a regular hexagon having side 10 cm. What is the area (in cm²) of the decorative wall − hanging? (Take $\sqrt{3} = 1.7$)

Ans ✔ 1. 255

✘ 2. 260

✘ 3. 250

✘ 4. 265

Q.18 Suman invested a sum of ₹8000 at 5% per annum compound interest, componded annually. If she received an amount of ₹9261 after n years, the value of n is:

Ans ✘ 1. 3.5

✔ 2. 3

✘ 3. 4

✘ 4. 2.79999995231628

Q.19 The ratio of the heights of a right circular cone and a right circular cylinder is 3 : 8 and the ratio of the radii of their bases is 8 : 5. If the volume of the cylinder is 400 cm³, then the volume (in cm³) of the cone is:

Ans ✘ 1. 131

✘ 2. 134

✘ 3. 124

✔ 4. 128

Q.20 The LCM of 27, 48, 276 and 368 is:

Ans ✔ 1. 9936

✘ 2. 9927

✘ 3. 9855

✘ 4. 9988

Q.21 If $16 \times 8 \times 700 \div \sqrt{2500} = y + 667$, then find the value of y.

Ans ✘ 1. 1124

✘ 2. 1115

✔ 3. 1125

✘ 4. 1117

Q.22 Which of the following fractions is the largest?

$\dfrac{7}{8}$, $\dfrac{3}{34}$, $\dfrac{21}{81}$, $\dfrac{75}{76}$

Ans ✘ 1. $\dfrac{21}{81}$

✔ 2. $\dfrac{75}{76}$

✘ 3. $\dfrac{7}{8}$

✘ 4. $\dfrac{3}{34}$

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Q.23　If 25% of a number is added to 72, then the result is the same number. 70% of the same number is:

Ans　✗ 1. 37.2

　　　✗ 2. 87.2

　　　✔ 3. 67.2

　　　✗ 4. 97.2

Q.24　The smallest 1-digit number to be added to the 6-digit number 638970 so that it is completely divisible by 11 is:

Ans　✗ 1. 6

　　　✗ 2. 5

　　　✗ 3. 4

　　　✔ 4. 9

Q.25　A shopkeeper lists the price of a fan at 25% above its cost price and offers a 16% discount on its list price. If he earns a profit of ₹141, then what is the list price (in ₹) of the fan?

Ans　✗ 1. 3268

　　　✔ 2. 3525

　　　✗ 3. 3321

　　　✗ 4. 3305

Q.26　A man walks to a viewpoint and returns to the starting point by his car maintaining constant speed and thus takes a total time of 6 hours 45 minutes. He would have gained 4 hours by driving both ways. How long would it have taken for him to walk both ways with same walking speed?

Ans　✗ 1. 10 hours 30 minutes

　　　✗ 2. 11 hours 15 minutes

　　　✗ 3. 9 hours 45 minutes

　　　✔ 4. 10 hours 45 minutes

Q.27　The table below shows the profit earned by five friends in four different years. Study the table carefully to answer the question that follows.

Friends	2020	2021	2022	2023
Alex	9310	7250	6523	3546
Balaji	8240	7500	6542	2563
Chand	7560	6540	5140	2580
Dinesh	3524	6000	6780	3870
Elena	4260	9170	5010	6520

Find the amount which when lent on compound interest at 15% interest being compounded annually for 2 years, gives total interest equal to profit earned by Chand in 2023.

Ans　✗ 1. ₹6,000

　　　✔ 2. ₹8,000

　　　✗ 3. ₹9,000

　　　✗ 4. ₹7,000

Q.28 Three partners invested in a business in the ratio 6:3:2. They invested their capitals for 7 months, 4 months and 3 months, respectively. What was the ratio of their profits?

Ans ✗ 1. 8:2:1

✔ 2. 7:2:1

✗ 3. 10:2:1

✗ 4. 6:2:1

Q.29 Two trains of equal length are running on parallel lines in the same direction at speeds of 101 km/h and 65 km/h. The faster train passes the slower train in 30 seconds. The length of each train is:

Ans ✗ 1. 137 meters

✔ 2. 150 meters

✗ 3. 152 meters

✗ 4. 155 meters

Q.30 A number when increased by 50 %', gives 3930. The number is:

Ans ✗ 1. 7860

✗ 2. 1310

✗ 3. 5240

✔ 4. 2620

Q.31 The average price of three items of furniture is Rs 15975. If their prices are in the ratio 3:5:7, the price of the costliest item (in Rs) is

Ans ✗ 1. 7455

✗ 2. 3195

✗ 3. 5325

✔ 4. 22365

Q.32 Vishal covers 104 km in a boat in 30 hours against the stream and he takes 12 hours with the stream then find the speed of the stream?

Ans ✗ 1. 11.35 km/h

✔ 2. 2.6 km/h

✗ 3. 6.65 km/h

✗ 4. 7.52 km/h

Q.33 A dishonest vendor claims that he is selling goods at their cost price. But he is weighing 918 grams for 1000 grams. What is his profit percentage (rounded off to 2 decimal places)?

Ans ✔ 1. 8.93

✗ 2. 5

✗ 3. 14.5

✗ 4. 5.68

Q.34 A sum, when invested at 10% simple interest per annum, amounts to ₹9600 after 2 years. What is the simple interest (in ₹) on the same sum at the same rate in 1 year?

Ans ✔ 1. 800

✘ 2. 1600

✘ 3. 400

✘ 4. 3200

Q.35 Raghav's average earning per month in the first three months of a year was ₹22560. In April, his earning was 50% more than the average earning in the first three months. If his average earning per month for the whole year is ₹90078, then what will be Raghav's average earning (in ₹) per month from May to December?

Ans ✔ 1. 122427

✘ 2. 122428

✘ 3. 122430

✘ 4. 122423

Section : General Intelligence and Reasoning

Q.36 If 'P' stands for '×' , 'Q' stands for '÷', 'R' stands for '−' and 'S' stands for '+' , what will come in place of the question mark '?' in the following equation?
(32 S 32) S (24 S 24) P 2 R 60 S 108 Q 2 = ?

Ans ✘ 1. 150

✘ 2. 170

✔ 3. 154

✘ 4. 190

Q.37 Four of the following five figures are alike in a certain way and thus form a group. Which figure DOES NOT belong to that group?

(A)　　(B)　　(C)　　(D)　　(E)
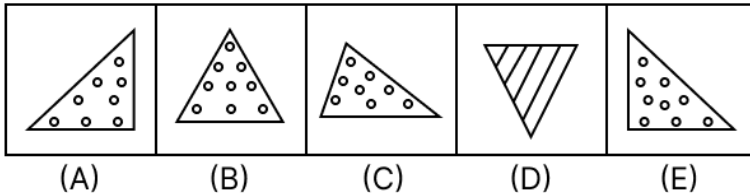
Ans ✘ 1. E

✘ 2. B

✘ 3. C

✔ 4. D

Q.38 This question is based on the five, three-digit numbers given below.
(Left) 759 843 719 857 735 (Right)
(Example- 697 – First digit = 6, second digit = 9 and third digit = 7)
NOTE - All operations to be done from left to right.
What will be the resultant if the second digit of the highest number is added to the second digit of the lowest number?

Ans ✔ 1. 6

✘ 2. 4

✘ 3. 5

✘ 4. 7

Q.39 Identify the figure given in the options which when put in place of the question mark (?) will logically complete the series.

		B	B △	
	B	△	K	?
K △ B	K △	K		

Ans   1. | B △ K |

✗

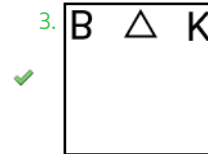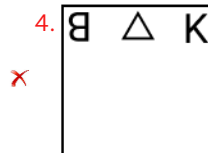   2. | B ▽ K |

✗

    3. | B △ K |

✔

    4. | B △ K |

✗
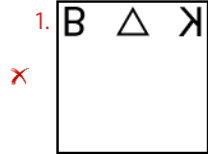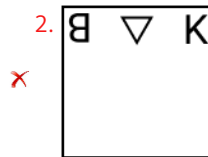
Q.40 All 38 people are standing in a row facing north. Vikash is 18th from the right end while Kerisha is 12th from the left end. How many people are there between Vikash and Kerisha?

Ans   ✗ 1. 7

    ✗ 2. 5

    ✗ 3. 6

    ✔ 4. 8

Q.41 Y, X, D, E, U, G and P have different ages. X is younger than U. Only Y is elder than G. Only one person is aged between X and G. D is elder than E but younger than P. Who is the third youngest?

Ans   ✗ 1. G

    ✔ 2. P

    ✗ 3. D

    ✗ 4. U

Q.42 Seven boxes O, P, Q, R, S, T and D are kept one over the other but not necessarily in the same order. Only three boxes are kept above T. Only one box is kept between O and T. Only three boxes are kept between O and D. D is kept at some place above T. P is kept immediately below D. S is kept at one of the places above R. Q is not kept immediately above or below O. How many boxes are kept between Q and R?

Ans ✗ 1. Four

✗ 2. Three

✔ 3. Five

✗ 4. One

Q.43 Refer to the given letter, number, symbol series and answer the question that follows.

(Left) 5 4 D * S R + 6 3 % 7 Y # K E G 2 C & T @ (Right)

How many such numbers are there, that are immediately preceded by a letter and also immediately followed by a symbol?

Ans ✗ 1. 1

✗ 2. 3

✔ 3. 0

✗ 4. 2

Q.44 C is the son of F. F is the brother of E. E is the son of G. G is the wife of H. How is C related to H?

Ans ✗ 1. Son's wife

✗ 2. Son's daughter

✗ 3. Son

✔ 4. Son's son

Q.45 Seven people, B, C, D, E, F, G and Q, are sitting around a circular table facing the centre of the table. D sits fourth to the right of B. Only D sits between Q and E. Only F sits between B and E. E sits third to the left of G. How many people sit between F and C when counted from the right of F?

Ans ✔ 1. Two

✗ 2. Three

✗ 3. One

✗ 4. Four

Q.46 Based on the English alphabetical order, three of the following four are alike in a certain way and thus form a group. Which is the one that DOES NOT belong to that group?

Ans ✗ 1. MHR

✗ 2. UPZ

✗ 3. AVF

✔ 4. JFO

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Q.47 Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.

Statements:
All spoons are forks.
All forks are jars.
Some jars are plates.

Conclusions:
(I): Some forks are plates.
(II): Some spoons are plates.

Ans ✗ 1. Only conclusion I follows

✔ 2. Neither conclusion I nor II follows

✗ 3. Both conclusions I and II follow

✗ 4. Only conclusion II follows

Q.48 What should come in place of the question mark (?) in the given series based on the English alphabetical order?

SVX QTV ORT MPR ?

Ans ✗ 1. KMP

✗ 2. KMO

✗ 3. KNO

✔ 4. KNP

Q.49 In a certain code language, 'WIDE' is coded as '6879' and 'DOGS' is coded as '4318'. What is the code for 'D' in that language?

Ans ✗ 1. 1

✗ 2. 4

✗ 3. 7

✔ 4. 8

Q.50 A, B, C, D, E and F live on six different floors of the same building. The lowermost floor in the building is numbered 1, the floor above it, number 2 and so on till the topmost floor is numbered 6. E lives on a floor that is a prime number. The product of the floors on which E and C live is 8. F lives immediately above A. The sum of floors on which C and B live is 7. How many people live between E and F?

Ans ✗ 1. 2

✗ 2. 4

✗ 3. 1

✔ 4. 3

Q.51 Based on the English alphabetical order, three of the following four letter cluster pairs are alike in a certain way and thus form a group. Which is the one that DOES NOT belong to that group?

Ans   ✗ 1. HC : FA

     ✗ 2. BW : ZU

     ✗ 3. UP : SN

     ✓ 4. EZ : DX

Q.52 In a certain code language, 'SKEW' is coded as '1836' and 'WOKE' is coded as '6283'. What is the code for 'O' in the given code language?

Ans   ✓ 1. 2

     ✗ 2. 8

     ✗ 3. 6

     ✗ 4. 3

Q.53 Select the triad that follows the same pattern as the one followed by the two triads given below. Both triads follow the same pattern.

KG-NI-PS

NJ-QL-SV

Ans   ✓ 1. QM-TO-VY

     ✗ 2. RM-TP-VZ

     ✗ 3. RM-TO-VZ

     ✗ 4. QM-TO-VZ

Q.54 Naman starts from Point A and drives 8 km towards East. He then takes a right turn, drives 5 km, turns right and drives 10 km. He then takes a right turn and drives 12 km. He takes a final right turn, drives 2 km and stops at Point P. How far (shortest distance) and towards which direction should he drive in order to reach Point A again? (All turns are 90 degree turns only unless specified.)

Ans   ✗ 1. 6 km to the South

     ✗ 2. 7 km to the North

     ✗ 3. 6 km to the North

     ✓ 4. 7 km to the South

Q.55 23 is related to 21.7 following a certain logic. Following the same logic, 29.4 is related to 28.1. To which of the following is 26.8 related, following the same logic?

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 – Operations on 13 such as adding/subtracting/multiplying to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

Ans   ✗ 1. 25.7

     ✗ 2. 25.1

     ✓ 3. 25.5

     ✗ 4. 24.5

Q.56 35 is related to 42 following a certain logic. Following the same logic, 80 is related to 96. To which of the following is 65 related, following the same logic?

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 – Operations on 13 such as adding / subtracting /multiplying to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

Ans ✗ 1. 76

✗ 2. 72

✔ 3. 78

✗ 4. 84

Q.57 Refer to the following letter, number and symbol series and answer the question that follows. Counting to be done from left to right only.

(Left) Y # 3 R 6 C & T % 7 2 K & 5 G E * S D 4 @ (Right)

How many such letters are there which are immediately preceded by a symbol and also immediately followed by a number?

Ans ✗ 1. 2

✗ 2. 3

✔ 3. 0

✗ 4. 1

Q.58 S is the wife of D. D is the brother of F. F is the mother of G. G is the father of H. How is S related to H?

Ans ✗ 1. Father's father's brother's wife

✔ 2. Father's mother's brother's wife

✗ 3. Mother's mother's brother's wife

✗ 4. Mother's father's brother's wife

Q.59 Which numbers should come in place of the question mark (?) in the same sequence to make the series logically complete?

7 24 58 126 262 ?

Ans ✔ 1. 534

✗ 2. 484

✗ 3. 492

✗ 4. 593

Q.60 A, B, C, D, E, F and G sit around a circular table facing centre. Only three people sit between A and C when counted from the left of A. Only three people sit between E and G when counted from the right of G.B sits to the immediate right of E. D is an immediate neighbour of G as well as C. How many people sit between B and F when counted from the right of F?

Ans ✗ 1. 3

✗ 2. 2

✔ 3. 1

✗ 4. 4

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Q.61 Select the term from among the given options that can replace the question mark (?) in the following series.

RXU 34 TUQ 23 VRM 12 XOI 1 ?

Ans   ✗ 1. VNT -13

      ✓ 2. ZLE -10

      ✗ 3. XKE -14

      ✗ 4. ZFE -15

Q.62 In a certain code language, 'believe in yourself' is coded as 'mb tk jb' and 'in the middle' is coded as 'ab jb wt'. How is 'in' coded in the given language?

Ans   ✗ 1. tk

      ✓ 2. jb

      ✗ 3. ab

      ✗ 4. mb

Q.63 Each of the digits in the number 7832145 is arranged in ascending order from left to right. What will be the sum of the digits which are second from the left and second from the right in the new number thus formed?

Ans   ✗ 1. 6

      ✓ 2. 9

      ✗ 3. 10

      ✗ 4. 8

Q.64 Select the correct mirror image of the given figure when the mirror is placed at line MN as shown.

M
|
V C Z N k P |
|
N

Ans   ✗ 1. kPИƧƆV

      ✗ 2. ꟼꓘИƧƆV

      ✓ 3. ꟼꓘИƧƆV

      ✗ 4. ꟼꓘИƧVƆ
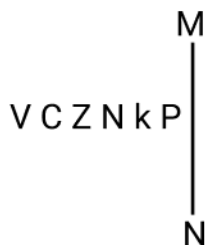
Q.65 Based on the English alphabetical order, three of the following four letter-clusters are alike in a certain way and thus form a group. Which letter-cluster DOES NOT belong to that group?
(Note: The odd one out is not based on the number of consonants/vowels or their position in the letter-cluster.)

Ans   ✓ 1. AYV

      ✗ 2. JGE

      ✗ 3. LIG

      ✗ 4. XUS

Q.66 Stu starts from Point A and drives 31 km towards south. He then takes a right turn, drives 36 km, turns right and drives 11 km. He then takes a right turn and drives 12 km. He then takes a right turn, drives 16 km, turns left and drives 9 km. He takes a final left turn, drives 36 km and stops at Point P. How far (the shortest distance) and towards which direction should he drive in order to reach Point A again? (All turns are 90° turns only, unless specified.)

Ans ✔ 1. 15 km towards east

✘ 2. 17 km towards south

✘ 3. 13 km towards south

✘ 4. 11 km towards east

Q.67 Which of the following letter-clusters should replace # and % so that the pattern and relationship followed between the letter-cluster pair on the left side of :: is the same as that on the right side of ::?

: AGJ :: GMP : %

Ans ✘ 1. # = WCF; % = KQI

✘ 2. # = WYF; % = KQT

✘ 3. # = XCF; % = KQT

✔ 4. # = WCF; % = KQT

Q.68 If 1 is added to each odd digit and 2 is subtracted from each even digit in the number 1378564, what will be difference between the highest and lowest digits in the new number thus formed?

Ans ✘ 1. 2

✘ 2. 4

✔ 3. 6

✘ 4. 8

Q.69 Which of the following letter-clusters should replace # and % so that the pattern and relationship followed between the letter-cluster pair on the left side of :: is the same as that on the right side of :: ?

: LFI :: SMP : %

Ans ✔ 1. # = PJM, % = OIL

✘ 2. # = BJM, % = LPI

✘ 3. # = GHT, % = LJH

✘ 4. # = RTM, % = MKL

Q.70 Refer to the following number, symbol series and answer the question that follows. Counting to be done from left to right only.

(Left) 2 & 4 6 % 7 $ & 1 # 3 Ω @ 8 * £ 5 9 (Right)

How many such symbols are there each of which is immediately preceded by a number and also immediately followed by another number?

Ans ✘ 1. One

✘ 2. Two

✔ 3. More than two

✘ 4. None

Q.71 Which of the following schemes was launched by Rajnath Singh to promote innovations in critical and strategic defence technologies, during DefConnect 2024 in New Delhi on 4 March 2024?

Ans ✗ 1. STUTI

✓ 2. ADITI

✗ 3. SAMSKRUTI

✗ 4. SMRITI

Q.72 At which of the following Air Force bases did the Indian Air Force (IAF) contingent participate in the Exercise Red Flag, 2024?

Ans ✗ 1. Hickam Air Force Base, Hawaii

✓ 2. Eielson Air Force Base, Alaska

✗ 3. Andersen Air Force Base, Guam

✗ 4. Nellis Air Force Base, Nevada

Q.73 If the court finds that a person is holding office but not entitled to hold that office, it issues the writ of _____ and restricts that person from acting as an office holder.

Ans ✗ 1. Habeas Corpus

✗ 2. Mandamus

✗ 3. Prohibition

✓ 4. Quo-Warranto

Q.74 Which of the following is the coverage provided by the 'Pradhan Mantri Suraksha Bima Yojana (PMSBY)' in case of partial disability?

Ans ✗ 1. ₹2 lakhs

✗ 2. ₹5 lakhs

✗ 3. ₹50,000

✓ 4. ₹1 lakh

Q.75 In reference to air transport of India, what is the full form of AERA?

Ans ✓ 1. Airports Economic Regulatory Authority of India

✗ 2. Agriculture Economic Regulatory Authority of India

✗ 3. Aviation Economic Regulatory Authority of India

✗ 4. Agriculture Economic Regulatory Authority

Q.76 In November 2023, generic drugs for four rare diseases were made available in India, out of which 'Nitisinone' is used for the treatment of:

Ans ✗ 1. Dravet and Lennox-Gastaut syndromes

✗ 2. Wilson's Disease

✓ 3. Tyrosinemia Type 1

✗ 4. Gaucher's Disease

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Q.77 The Central Goods and Services Tax (Second Amendment) Bill, 2023 increased the age limit for the president of the Tribunal from _____.

Ans ✗ 1. 65 to 67 years

✗ 2. 65 to 70 years

✔ 3. 67 to 70 years

✗ 4. 60 to 65 years

Q.78 Quwwat-al-islam mosque is nearest to which of the following historical monuments?

Ans ✗ 1. Humayun Tomb

✗ 2. Tughlakabad Fort

✔ 3. Qutub Minar

✗ 4. Jama Masjid

Q.79 During which of the following seasons do the Southwest Monsoon winds enter the Indian Peninsula?

Ans ✗ 1. Post-Monsoon

✗ 2. Winter

✔ 3. Rainy Season

✗ 4. Summer

Q.80 BharatGen is a key initiative of Ministry of Science & Technology, launched in October 2024. Which of the following statements is true about this initiative?

Ans ✗ 1. It is focused on making India self-reliant in terms of classical computing.

✗ 2. It aims to identify dark patterns in public distribution systems.

✗ 3. It is a key initiative focused on fifth-generation bioethanol.

✔ 4. It focuses on developing a suite of foundational models in language, speech and computer vision.

Q.81 Which sensitive dye turns yellow in the presence of acid with pH between 6.0 – 7.6?

Ans ✗ 1. Methyl orange

✗ 2. Alizarin yellow R

✔ 3. Bromothymol blue

✗ 4. Thymolphthalein

Q.82 Which of the following winds govern the climate of India during winter?

Ans ✗ 1. Southwest monsoon winds

✔ 2. Northeast trade winds

✗ 3. Westerlies

✗ 4. Northeast monsoon winds

Q.83 Which of the following articles of Indian Constitution deals with the executive power of the Union?

Ans ✗ 1. Article 52

✗ 2. Article 55

✗ 3. Article 54

✔ 4. Article 53

Q.84 Who among the following was the Architect of the building 'St. Francis Church' in Kochi?

Ans
- ✗ 1. Goerge Bush
- ✗ 2. George Wittet
- ✓ 3. Pedro Alvarez De Cabral
- ✗ 4. William Emerson

Q.85 When several factors affect any [bio] chemical process, Law of Limiting Factors comes into effect. This law is given by:

Ans
- ✓ 1. Blackman
- ✗ 2. Engelmann
- ✗ 3. Calvin
- ✗ 4. Priestley

Q.86 What is the primary function of development banks in the context of India's industrial growth?

Ans
- ✗ 1. They serve as regulatory bodies to enforce industrial standards.
- ✗ 2. Their sole function is to manage the country's foreign exchange reserves.
- ✓ 3. Development banks provide long-term financing and support for industrial projects and infrastructure development.
- ✗ 4. They are involved only in short-term consumer lending.

Q.87 Which of the following games made its maiden participation at National Games 2023?

Ans
- ✓ 1. Beach Handball
- ✗ 2. Wushu
- ✗ 3. Yachting
- ✗ 4. Squash

Q.88 Which of the following does the term 'household' mean according to the Census?

Ans
- ✗ 1. A group of related individuals living together under one roof
- ✓ 2. A group of persons who share a common kitchen and take meals together
- ✗ 3. A group of persons engaged in common economic activities
- ✗ 4. A group of unrelated individuals residing in the same locality

Q.89 In which language is the book 'Amar Jiban' written?

Ans
- ✗ 1. English
- ✓ 2. Bengali
- ✗ 3. Hindi
- ✗ 4. Urdu

Q.90 Which initiative was launched by the Union Education Minister to promote digital skill development among rural youth, particularly women, in 2023?

Ans
- ✓ 1. Skills on Wheels
- ✗ 2. Skills on the Go
- ✗ 3. Digi-Skill Drive
- ✗ 4. Digi-Skills

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Q.91 Which of the following styles of Thumri singing is meant to be fairly slow and staid?

Ans
✗ 1. Assam

✗ 2. Agra

✔ 3. Benaras

✗ 4. Punjab

Q.92 Which of the following is also known as congenital ovarian hypoplasia syndrome which is found only in females?

Ans
✗ 1. Ehlers-Danlos syndrome

✗ 2. Klinefelter syndrome

✗ 3. Usher syndrome

✔ 4. Turner syndrome

Q.93 Moved by the Swadeshi movement, _____ painted his famous image of Bharat Mata in 1905.

Ans
✔ 1. Abanindranath Tagore

✗ 2. Bankim Chandra chatterjee

✗ 3. Surendranath Banerjee

✗ 4. Anand Mohan Bose

Q.94 The Indian men's hockey team beat the team of which country to win the bronze medal at the Paris 2024 Olympics?

Ans
✗ 1. Germany

✔ 2. Spain

✗ 3. Australia

✗ 4. Belgium

Q.95 Which part of the Indian Constitution is related to citizenship?

Ans
✔ 1. Part II

✗ 2. Part IV

✗ 3. Part VI

✗ 4. Part III

Q.96 Which of the following periods was considered as the second phase of the Green Revolution in India?

Ans
✗ 1. Mid-1960s to mid-1970s

✗ 2. 1970s to 1980s

✗ 3. 1960s to 1970s

✔ 4. Mid-1970s to mid-1980s

Q.97 Industrial Policy Resolution, 1956 was adopted in which of the following five-year plans?

Ans
✔ 1. 2nd Five-Year Plan

✗ 2. 1st Five-Year Plan

✗ 3. 4th Five-Year Plan

✗ 4. 3rd Five-Year Plan

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Q.98 In 1309, who invaded the Kakatiya kingdom?

Ans
  - ✗ 1. Sunder Pandya
  - ✗ 2. Vir Pandya
  - ✗ 3. Ballala Deva
  - ✓ 4. Malik Kafur

Q.99 How does the Indian Government finance its fiscal deficit?

Ans
  - ✗ 1. By reducing subsidies
  - ✗ 2. By increasing taxes on essential goods
  - ✗ 3. By printing more currency
  - ✓ 4. By borrowing from domestic and international sources

Q.100 Who among the following is the Chairman of the Defence Research and Development Organisation (DRDO) as on December, 2023?

Ans
  - ✗ 1. Dr Upendra Kumar Singh
  - ✓ 2. Dr Samir V Kamat
  - ✗ 3. Dr Y Sreenivas Rao
  - ✗ 4. Dr B K Das

Q.101 As a reaction to the Muslim fundamentalism, the Hindu Mahasabha was founded in which of the following years?

Ans
  - ✓ 1. 1915
  - ✗ 2. 1911
  - ✗ 3. 1920
  - ✗ 4. 1917

Q.102 How are environmental defensive expenditures classified at the aggregate level in national accounting?

Ans
  - ✗ 1. Capital expenditures
  - ✓ 2. Intermediate consumption
  - ✗ 3. Final consumption expenditures
  - ✗ 4. Investment expenditures

Q.103 Which Article of the Indian Constitution provides for an independent Election Commission for the 'superintendence, directions and control of the electoral roll and the conduct of the elections of India?

Ans
  - ✗ 1. Article 322
  - ✗ 2. Article 333
  - ✗ 3. Article 321
  - ✓ 4. Article 324

Q.104 Qutb ud-Din Aibak was fond of which of the following outdoor sports?

Ans
  - ✗ 1. Wrestling
  - ✓ 2. Polo
  - ✗ 3. Hockey
  - ✗ 4. Kabaddi

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Q.105 Who among the following established the Atmiya Sabha in 1814?

Ans ✓ 1. Raja Rammohan Roy

✗ 2. Debendranath Tagore

✗ 3. Ishwarchandra Vidyasagar

✗ 4. Keshub Chandra Sen

Q.106 Who assumed charge as Minister of Earth Sciences in June 2024 in the newly formed union cabinet?

Ans ✗ 1. Jadhav Prataprao Ganpat Rao

✗ 2. L Murugan

✗ 3. Virendra Kumar

✓ 4. Jitendra Singh

Q.107 Which of the following is the primary reason for the high literacy rate in Kerala?

Ans ✗ 1. Because of high population density

✗ 2. Because of industrial development

✗ 3. Because of large number of universities

✓ 4. Because of effective literacy programmes and emphasis on education

Q.108 Who was serving as the Managing Director of the International Monetary Fund (IMF) since 1 October 2019 and has been selected by the IMF's Executive Board to serve for a second five-year term, starting 1 October 2024?

Ans ✗ 1. Kenji Okamura

✗ 2. Gita Gopinath

✗ 3. Antoinette Sayeh

✓ 4. Kristalina Georgieva

Q.109 Which adulterant is added to increase the solids-not-fat (SNF) content in milk and the yield of dairy products?

Ans ✗ 1. Melamine

✗ 2. Hydrogen peroxide

✓ 3. Maltodextrin

✗ 4. Potassium bicarbonate

Q.110 Which of the following is NOT a function of the Governor of the State?

Ans ✗ 1. Nomination of members to the State Legislative Council

✗ 2. Appointing the Chief Minister

✗ 3. Assenting to bills passed by the State Legislature

✓ 4. Appointing the District Collectors

Q.111 In which of the following years was Rajiv-Longowal Peace accord signed by Indian Prime Minster Rajeev Gandhi and Akali leader Harchand Singh Longowal?

Ans ✗ 1. 1984

✓ 2. 1985

✗ 3. 1987

✗ 4. 1986

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Q.112 The Ganga-Brahmaputra-Meghna system is composed of which of the following main sub-basins?

Ans
✔ 1. Bhagirathi and Alaknanda

✘ 2. Bhagirathi and Yamuna

✘ 3. Alaknanda and Gandak

✘ 4. Yamuna and Ramganga

Q.113 Which of the following states has benefited from the 'Sirhind' canal?

Ans
✘ 1. West Bengal

✘ 2. Bihar

✘ 3. Uttar Pradesh

✔ 4. Punjab

Q.114 Which of the following Articles of the Indian Constitution deals with the administration of Union Territories?

Ans
✘ 1. Article 260

✔ 2. Article 239

✘ 3. Article 255

✘ 4. Article 245

Q.115 'Nada' is a musical sound in the Carnatic Classical Music, which is of two kinds; 'Ahata' and '_____'

Ans
✔ 1. Anahata

✘ 2. Charmaja

✘ 3. Lohaja

✘ 4. Shariraja

Q.116 Who taught medicine in Taxila around 6ᵗʰ century BCE?

Ans
✔ 1. Punarvasu Atreya

✘ 2. Paramhans Atreya

✘ 3. Panini Atreya

✘ 4. Prakrit Atreya

Q.117 Which of the following is NOT one of the broad objectives of NITI Aayog?

Ans
✘ 1. To evolve a shared vision of national development priorities, sectors and strategies with the active involvement of the states in the light of national objectives

✘ 2. To develop mechanisms to formulate credible plans at the village level and aggregate these progressively at higher levels

✘ 3. To design strategic and long-term policy and programme frameworks and initiatives, and monitor their progress and their efficacy

✔ 4. To promote initiatives like Make in India, Skill India, Startup India, Standup India, etc.

Q.118 A method for measuring atmospheric pressure was first devised by _____.

Ans
✘ 1. Pascal

✘ 2. Archimedes

✔ 3. Torricelli

✘ 4. Bernoulli

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Q.119 The type of stress that acts coplanar along a given cross-section of the material is defined as _____.

Ans ✗ 1. Radial stress

✗ 2. Bulk stress

✗ 3. Compressive stress

✓ 4. Shear stress

Q.120 Which of the following international sports event was NOT held in the year 2023?

Ans ✗ 1. World Wrestling Championship

✓ 2. Commonwealth Games

✗ 3. ICC Mens's Cricket World Cup

✗ 4. Asian Games

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Section : **Arithmetic**

Q.1 A bank offers 9.2% compound interest per annum calculated on a half-yearly basis. A customer deposits ₹2907 each on 1 January and 1 July of a year. At the end of the year, the amount he would have gained by way of interest is _____. [Give your answer correct to 2 decimal places.]

Ans ✗ 1. ₹399.22

✔ 2. ₹407.31

✗ 3. ₹417.31

✗ 4. ₹395.33

Q.2 Find the circumference (in m) of the largest circle that can be inscribed in a rectangle whose dimensions are given as 112 m and 114 m.

$$take \; \pi = \frac{22}{7}$$

Ans ✗ 1. 350

✗ 2. 354

✗ 3. 347

✔ 4. 352

Q.3 Express the following into vulgar fraction.

$0.12\overline{3} + 0.\overline{39}$

Ans ✗ 1. $\dfrac{579}{1100}$

✔ 2. $\dfrac{569}{1100}$

✗ 3. $\dfrac{568}{1100}$

✗ 4. $\dfrac{578}{1100}$

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Q.4 Find the simple interest (in ₹) on ₹2000 at 6.25% per annum rate of interest for the period from 12 February 2023 to 26 April 2023

Ans ✗ 1. 23

✗ 2. 26

✓ 3. 25

✗ 4. 24

Q.5 The average price of three items of furniture is Rs 15960. If their prices are in the ratio 3:5:7, the price of the costliest item (in Rs) is

Ans ✗ 1. 5320

✓ 2. 22344

✗ 3. 7448

✗ 4. 3192

Q.6 Isha and Anshu together invested ₹44000 in a business. At the end of the year, out of a total profit of ₹8800, Isha's share was ₹1100. What was the investment of Anshu?

Ans ✗ 1. ₹38110

✗ 2. ₹40115

✗ 3. ₹37420

✓ 4. ₹38500

Q.7 If a 1092 m long train crosses a pole in 52 seconds, then find the time (in seconds) taken by the train to cross a 294 m long platform.

Ans ✗ 1. 61

✓ 2. 66

✗ 3. 63

✗ 4. 60

Q.8 If $29 \times 2 \times 742 \div \sqrt{2809} = y + 784$, then find the value of y.

Ans ✗ 1. 26

✓ 2. 28

✗ 3. 36

✗ 4. 35

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Q.9 During sale, Raghav bought a notebook marked for ₹100 at 77% discount and a pen marked for ₹100 at 16% discount. How much (in ₹) did he save due to sale?

Ans ✗ 1. 91

✗ 2. 92

✗ 3. 95

✓ 4. 93

Q.10 Simplify the following:
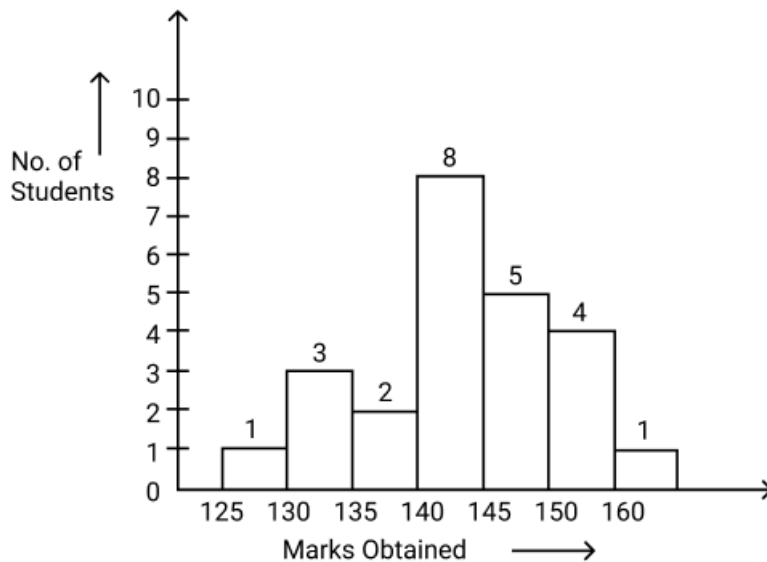
$$5 \times \left(\frac{3}{4}\right) - 2 \times \left(\frac{1}{4}\right) - 3 \times \left(\frac{1}{4}\right) - \left(\frac{1}{4}\right)$$

Ans ✗ 1. $\dfrac{3}{4}$

✓ 2. $\dfrac{9}{4}$

✗ 3. $\dfrac{7}{4}$

✗ 4. $\dfrac{5}{4}$

Q.11 A number when divided by 576 gives remainder 75. If the same number is divided by 24, then find the remainder.

Ans ✓ 1. 3

✗ 2. 4

✗ 3. 2

✗ 4. 1

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Q.12 Observe the graph and answer the following question.

How many students obtained marks more than 135?

Ans ✗ 1. 12

✓ 2. 18

✗ 3. 16

✗ 4. 14

Q.13 Pramod sold 171 chairs and had a gain equal to the selling price of 57 chairs. What is his profit percentage?

Ans ✗ 1. 55%

✗ 2. 45%

✗ 3. 60%

✓ 4. 50%

Q.14 A bank offers 6.8% compound interest per annum calculated on a half-yearly basis. A customer deposits ₹4879 each on 1 January and 1 July of a year. At the end of the year, the amount he would have gained by way of interest is _____. [Give your answer correct to 2 decimal places.]

Ans ✗ 1. ₹521.27

✗ 2. ₹524.58

✓ 3. ₹503.29

✗ 4. ₹513.29

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Q.15 In what ratio must Suhail, a wholesaler, mix wheat worth ₹45 per kg with wheat worth ₹75 per kg, so that by selling the mixture at ₹80 per kg, he may gain 25%?

Ans ✗ 1. 11 : 17

✗ 2. 13 : 19

✔ 3. 11 : 19

✗ 4. 13 : 17

Q.16 120 l of a mixture of milk and water contains 15% of water. How much water (in litres) should be added to the mixture to make the water content 25%?

Ans ✗ 1. 12

✔ 2. 16

✗ 3. 20

✗ 4. 24

Q.17 The price of fuel decreases by 25%, 60% and 10% in three successive months, but increases by 60% in the fourth month. What is the percentage increase/decrease in the price of fuel in the fourth month as compared to its original price?

Ans ✗ 1. Increases by 61.02%

✗ 2. Increases by 59.84%

✔ 3. Decreases by 56.79%

✗ 4. Decreases by 59.51%

Q.18 The population of a village was 140000. It increased by 5% in the first year and increased by 20% in the second year. Its population after two years is _____.

Ans ✗ 1. 168000

✔ 2. 176400

✗ 3. 147000

✗ 4. 175000

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Q.19 Two trains of equal length are running on parallel lines in the same direction at speeds of 40 km/h and 22 km/h. The faster train passes the slower train in 40 seconds. The length of each train is:

Ans ✗ 1. 114 meters

✗ 2. 82 meters

✔ 3. 100 meters

✗ 4. 90 meters

Q.20 The area of a square plot is 961 m² . The length of each side of the plot (in m) is:

Ans ✗ 1. 39

✗ 2. 29

✔ 3. 31

✗ 4. 41

Q.21 Raghu completes his journey in 20 hours. He covers half the distance at 27 km/h and the rest at 54 km/h. What is the length of the journey (in Km)?

Ans ✗ 1. 712

✗ 2. 710

✔ 3. 720

✗ 4. 728

Q.22 Find the volume of a sphere whose surface area is 1386 cm².

Ans ✗ 1. 4726 cm²

✗ 2. 4672 cm²

✗ 3. 4518 cm²

✔ 4. 4851 cm²

Q.23 Parvati and Pari invest in a business in the ratio 7 : 15. If total profit is Rs. 1166, then what is difference between the profit (in Rs.) of Parvati and Pari?

Ans ✗ 1. 324

✔ 2. 424

✗ 3. 274

✗ 4. 524

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Q.24 A conical tent has to accommodate 40 persons. Each person requires 5 m³ space on the ground and 70 m³ of air to breathe. Find the height (in m) of the tent (use π = 22/7).

Ans ✔ 1. 42

✗ 2. 45

✗ 3. 40

✗ 4. 38

Q.25 A shopkeeper marks an article at ₹x and offers a discount of 40% on it. He sells it for ₹255 after charging VAT of 70% on the discounted price. What is the value of ₹ x?

Ans ✔ 1. ₹250

✗ 2. ₹200

✗ 3. ₹100

✗ 4. ₹400

Q.26 A shopkeeper lists the price of a fan at 60% above its cost price and offers a 30% discount on its list price. If he earns a profit of ₹60, then what is the list price (in ₹) of the fan?

Ans ✗ 1. 1021

✗ 2. 824

✗ 3. 873

✔ 4. 800

Q.27 A person drove at 39 kmph for 3.5 hours, then increased his speed by 9 kmph, and reached the destination in another hour. Find the average speed (in kmph) of the person during the entire journey.

Ans ✗ 1. 47

✗ 2. 43

✗ 3. 45

✔ 4. 41

Q.28 If $13 \times 7 \times 686 \div \sqrt{2401} = y + 785$, then find the value of y.

Ans ✔ 1. 489

✘ 2. 488

✘ 3. 498

✘ 4. 499

Q.29 The smallest 1-digit number to be added to the 6-digit number 547363 so that it is completely divisible by 11 is:

Ans ✘ 1. 4

✘ 2. 5

✔ 3. 8

✘ 4. 6

Q.30 If the average of the four consecutive odd numbers is 42, find the sum of the digits of the largest of these numbers.

Ans ✘ 1. 8

✘ 2. 5

✘ 3. 7

✔ 4. 9

Q.31 The ratio of numbers of girls and boys participating in sports of a school is 1 : 5. If the number of girls is 247, determine the number of boys participating in the sports.

Ans ✘ 1. 1265

✘ 2. 1255

✘ 3. 1210

✔ 4. 1235

Q.32 The smallest natural number which is divisible by 14, 42, 54 and 6 is:

Ans ✘ 1. 384

✘ 2. 298

✔ 3. 378

✘ 4. 458

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Q.33 The smallest 1-digit number to be added to the 6-digit number 497094 so that it is completely divisible by 11 is:

Ans   ✗ 1. 6

     ✗ 2. 8

     ✗ 3. 4

     ✓ 4. 7

Q.34 Find the value of $\left[(28 \times 10) \times \left\{ 4 \div 4 \times \frac{(19 - 12)}{7} \right\} \right]$

Ans   ✓ 1. 280

     ✗ 2. 266

     ✗ 3. 298

     ✗ 4. 275

Q.35 The average of eight numbers is 20. The average of five of these numbers is 21. The average of the remaining three numbers is

Ans   ✗ 1. 17.33

     ✗ 2. 20.33

     ✗ 3. 19.33

     ✓ 4. 18.33

Section : **General Intelligence and Reasoning**

Q.36 A, B, C, D, E and F live on six different floors of the same building. The lowermost floor in the building is numbered 1, the floor above it, number 2 and so on till the topmost floor is numbered 6. C lives on an even numbered floor but not 6. The sum of the floors on which B and C live is 7. A lives immediately above E. The sum of the floors on which C and F live is 3. How many people live between A and C?

Ans   ✓ 1. 1

     ✗ 2. 2

     ✗ 3. 4

     ✗ 4. 3

Q.37 A * B means ' A is the father of B',

A - B means 'A is the son of B',

A $ B means 'A is the sister of B' and

A @ B means 'A is the daughter of B'.

Based on the above information, which of the following means that D is the sister's daughter of R?

Ans ✗ 1. D $ U * S - T @ R

✓ 2. D @ U * S - T $ R

✗ 3. D @ U - S * T $ R

✗ 4. D * U @ S $ T - R

Q.38 In a certain code language,

'A + B' means 'A is the daughter of B',
'A − B' means 'A is the brother of B',
'A x B' means 'A is the wife of B' and
'A ÷ B' means 'A is the father of B'.

How is W related to Y if W + E− R ÷ T x Y?

Ans ✗ 1. Wife's mother's brother's wife

✗ 2. Wife's father's brother's wife

✓ 3. Wife's father's brother's daughter

✗ 4. Wife's mother's brother's daughter

Q.39 Three of the following four letter-cluster pairs are alike in a certain way and thus form a group. Which is the letter-cluster pair that does NOT belong to that group?

(Note: The odd one out is not based on the number of consonants/vowels or their positions in the letter-cluster.)

Ans ✗ 1. JL - GI

✓ 2. MN - KL

✗ 3. XZ - UW

✗ 4. QS - NP

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Q.40 Select the pair that follows the same pattern as that followed by the two pairs given below. Both pairs follow the same pattern.

KQR : OTT
SWV : WZX

Ans ✗ 1. CZP : FBQ

✗ 2. QRL : TTM

✗ 3. MBK : OGM

✔ 4. ACZ : EFB

Q.41 Which of the following letter-clusters will replace the question mark (?) in the given series to make it logically complete?

IDX 1 MGS −6 ? UMI −26 YPD −39

Ans ✗ 1. PWX −9

✗ 2. WPS −11

✔ 3. QJN −15

✗ 4. PLW −13

Q.42 Four of the following five figures are alike in a certain way and thus form a group. Which figure DOES NOT belong to that group?

(A)   (B)   (C)   (D)   (E)

Ans ✗ 1. D

✗ 2. A

✔ 3. C

✗ 4. B

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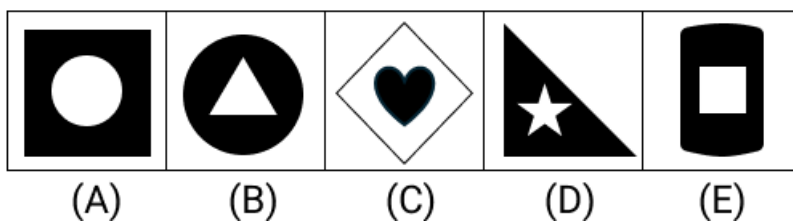
Q.43 If 2 is added to each odd digit and 2 is subtracted from each even digit in the number 384571, what will be the sum of all even digits in the new number thus formed?

Ans ✗ 1. 12

✓ 2. 8

✗ 3. 16

✗ 4. 14

Q.44 Refer to the following letter, number and symbol series and answer the question that follows. Counting to be done from left to right only.

(Left) C & T % 7 2 R G E * S D Y # 3 5 4 @ 6 K & (Right)

How many such symbols are there which are immediately preceded by a number and also immediately followed by a letter?

Ans ✓ 1. 0

✗ 2. 1

✗ 3. 2

✗ 4. 3

Q.45 Seven people, C, D, E, F, G, H and Z, are sitting in a row facing north. Only three people sit to the left of E. Only four people sit between H and D, neither of whom sits on the left end. C sits immediately to the left of G. Only three people sit between Z and D. How many people sit between F and G?

Ans ✗ 1. One

✓ 2. Four

✗ 3. Two

✗ 4. Three

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Q.46 This question is based on the following words.

JAR CUT DIM FOG

If in each of the words, each letter is changed to the next letter in the English alphabetical order, how many words thus formed will have no vowel?

Ans ✗ 1. 1

✔ 2. 2

✗ 3. 4

✗ 4. 3

Q.47 Select the term from among the given options that can replace the question mark (?) in the following series.

TUR 71 UQT 60 VMV 49 ? XEZ 27

Ans ✗ 1. UWX 32

✗ 2. VIY 35

✗ 3. VJX 34

✔ 4. WIX 38

Q.48 Seven people, A, B, C, D, E, F and G, are sitting in a row, facing north. Only five people sit between F and A. E sits to the immediate left of A. Only one person sits between E and B. G sits at some place to the left of D but at some place to the right of C. How many people sit between A and C?

Ans ✗ 1. 3

✗ 2. 1

✔ 3. 4

✗ 4. 2

Q.49 Select the triad that follows the same pattern as the one followed by the two triads given below. Both triads follow the same pattern.

EA-HD-KN

GC-JF-MP

Ans   ✗ 1. IF-LG-OS

     ✗ 2. IE-LH-OS

     ✗ 3. IF-LH-OS

     ✓ 4. IE-LH-OR

Q.50 Six people, named W, X, Y, Z, T and U, each are of different ages. The age of W is 30. The age of U is one-fourth the age of T. The age of Y is two times the age of X. The age of T is five times the age of Y. The age of W is two times the age of U. If the age of X is one-fourth the age of Z, what is the age of Z?

Ans   ✗ 1. 35

     ✗ 2. 45

     ✗ 3. 25

     ✓ 4. 24

Q.51 Based on the English alphabetical order, three of the following four letter cluster pairs are alike in a certain way and thus form a group. Which is the one that DOES NOT belong to that group?

Ans   ✗ 1. ID : GB

     ✓ 2. RM : OK

     ✗ 3. DY : BW

     ✗ 4. KF : ID

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Q.52 This question is based on the following words.

CAR SHE BEG MUD

In each of the words, each vowel is changed to the letter following it in the English alphabetical order and each consonant is changed to the letter preceding it in the English alphabetical order. In how many letter-clusters thus formed, will no vowel appear?

Ans ✗ 1. 2

✗ 2. 4

✗ 3. 1

✓ 4. 3

Q.53 MJ 18 is related to OF 2 in a certain way. In the same way, NE 11 is related to PA -5. To which of the following is SQ 1 related, following the same logic?

Ans ✗ 1. VM -12

✗ 2. VK -14

✗ 3. UL -15

✓ 4. UM -15

Q.54 In a certain code language, 'BULK' is coded as '5273' and 'KITE' is coded as '4612'. What is the code for 'K' in the given code language?

Ans ✗ 1. 3

✗ 2. 4

✗ 3. 6

✓ 4. 2

Q.55 Each of P, Q, R, S, T, U and V has an exam on a different day of a week starting from Monday and ending on Sunday of the same week.

Only two people have exam between S and V. U has an exam on Monday. Only P has an exam between U and S. V has an exam on the day immediately before T and the day immediately after R. Q has an exam on the day immediately before R. Who amongst the following has an exam on Saturday?

Ans ✗ 1. P

✗ 2. R

✗ 3. T

✓ 4. V

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Q.56 Ankit starts from point A and drives 11 km towards North. He then takes a left turn, drives 12 km, turns left and drives 14 km. He then takes a left turn and drives 14 km. He takes a final left turn, drives 3 km and stops at point P. How far (shortest distance) and towards which direction should he drive in order to reach point A again? (All turns are 90 degrees turns only unless specified.)

Ans ✗ 1. 3 km to the West

✗ 2. 4 km to the West

✓ 3. 2 km to the West

✗ 4. 1 km to the West

Q.57 Each of P, Q, R, S, T, U and V go to market on a different day of a week starting from Monday and ending on Sunday of the same week.
P goes to market on Wednesday. Exactly two people go to market between P and Q. Exactly three people go to market between Q and S. Exactly two people go to market between R and T. U goes to market on the day immediately after T. V goes to market on one of days after U.
Who goes to market on Thursday?

Ans ✓ 1. T

✗ 2. U

✗ 3. V

✗ 4. S

Q.58 Select the number from among the given options that can replace the question mark (?) in the following series.

24 88 137 173 ?

Ans ✗ 1. 202

✗ 2. 196

✗ 3. 200

✓ 4. 198

Q.59 In a certain code language, 'HAZE' is coded as '8574' and 'HEAL' is coded as '1745'. What is the code for 'L' in that language?

Ans ✗ 1. 7

    ✓ 2. 1

    ✗ 3. 5

    ✗ 4. 4

Q.60 If 'P' stands for '×', 'Q' stands for '÷', 'R' stands for '−' and 'S' stands for '+' , what will come in place of the question mark '?' in the following equation?

(32 Q 2) P 4 R 35 S (7 P 3) S 20 R 18 Q 3 =?

Ans ✗ 1. 80

    ✗ 2. 74

    ✓ 3. 64

    ✗ 4. 50

Q.61 This question is based on the given words.

VAN BUT ZIP DEW

If in each of the words, each letter is changed to the next letter in the English alphabetical order, how many words thus formed will have no vowel?

Ans ✗ 1. One

    ✗ 2. Two

    ✗ 3. Three

    ✓ 4. Zero

Q.62 Amit starts from Point A and drives 11 km towards North. He then takes a right turn, drives 9 km, turns right and drives 15 km. He then takes a right turn and drives 11 km. He takes a final right turn, drives 4 km and stops at Point P. How far (shortest distance) and towards which direction should he drive in order to reach Point A again? (All turns are 90 degree turns only unless specified.)

Ans ✗ 1. 3 km to the west

    ✗ 2. 3 km to the east

    ✗ 3. 2 km to the west

    ✓ 4. 2 km to the east

Q.63 Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusion(s) logically follow(s) from the statements.

Statements:
All spoons are forks.
All forks are jars.
Some jars are knives.

Conclusions:
(I) Some forks are knives.
(II) Some spoons are knives.

Ans   ✗ 1. Only conclusion (I) follows.

     ✗ 2. Both conclusions (I) and (II) follow.

     ✔ 3. Neither conclusion (I) nor (II) follows.

     ✗ 4. Only conclusion (II) follows.

Q.64 Select the correct mirror image of the given figure when the mirror is placed at line MN as shown.

M

@ 4 5 7 j K

N

Ans   ✗ 1. j K ⲅ 5 4 ⓐ

     ✗ 2. Ж ¡ ⲅ 4 5 ⓐ

     ✗ 3. Ж ¡ ⲅ 5 4 ⓐ

     ✔ 4. Ж ¡ ⲅ 5 4 ⓐ

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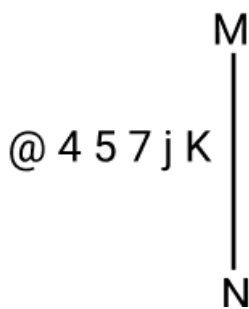
Q.65 Based on the English alphabetical order, three of the following four letter-cluster pairs are alike in a certain way and thus form a group. Which pair DOES NOT belong to that group?

(Note: The odd one out is not based on the number of consonants/vowels or their position in the letter-cluster pair.)

Ans ✗ 1. ID : GB

✓ 2. QL : PJ

✗ 3. CX : AV

✗ 4. NI : LG

Q.66 If 1 is added to each even digit and 1 is added to each odd digit in the number 2175648, what will be the sum of the first and last digits in the new number thus formed?

Ans ✓ 1. 12

✗ 2. 10

✗ 3. 7

✗ 4. 9

Q.67 25 is related to 155 following a certain logic. Following the same logic, 20 is related to 125. To which of the following is 32 related, following the same logic?

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 – Operations on 13 such as adding / subtracting /multiplying to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

Ans ✗ 1. 166

✗ 2. 192

✗ 3. 199

✓ 4. 197

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Q.68 Select the set in which the numbers are related in the same way as are the numbers of the following sets.

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 – Operations on 13 such as adding/subtracting/multiplying to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)
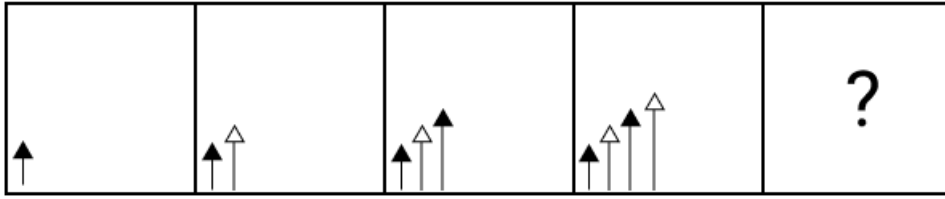
(19, 38, 114)
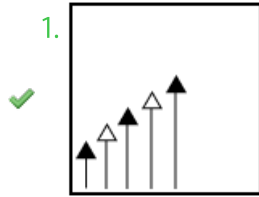
(14, 28, 84)

Ans ✔ 1. (12, 24, 72)

✘ 2. (17, 34, 68)

✘ 3. (16, 48, 96)

✘ 4. (15, 30, 85)

Q.69 Identify the figure given in the options which when put in place of the question mark (?) will logically complete the series.

Ans   1.   ✔

2.   ✘

3.   ✘

4.   ✘
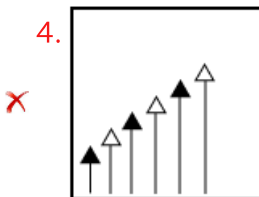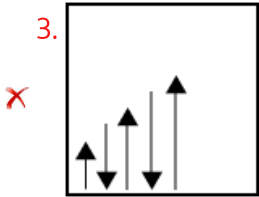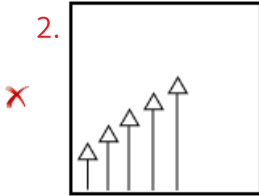
Q.70 In a certain code language, 'GASP' is coded as '8264' and 'TAPS' is coded as '8562'. What is the code for 'T' in that language?

Ans ✓ 1. 5

✗ 2. 2

✗ 3. 8

✗ 4. 6

Section : **General Awareness**

Q.71 Match the Column-I with Column-II and select your answer from the codes mentioned below:

(Column I)	(Column II)
(a) Northeast Trade Winds	i. Hot, dry winds of northern India
(b) Southwest Monsoon Winds	ii. Brings winter rains to the northern plains
(c) Winter Cyclonic Disturbances	iii. Brings moisture-laden winds from the Indian Ocean
(d) Loo	iv. Blows from land to sea during winter

Ans ✗ 1. (a) i (b) ii (c) iii (d) iv

✗ 2. (a) iii (b) iv (c) ii (d) i

✓ 3. (a) iv (b) iii (c) ii (d) i

✗ 4. (a) iv (b) ii (c) iii (d) i

Q.72 The Kayatha Culture of Chalcolithic period in Ancient India belongs to which of the following states of India?

Ans ✗ 1. Punjab

✗ 2. Rajasthan

✓ 3. Madhya Pradesh

✗ 4. Maharashtra

Q.73 Who among the social reformers following founded theWidow Remarriage Association in 1861?

Ans ✗ 1. Jyotiba Phule

✗ 2. Dayanand Saraswati

✗ 3. Dadabhai Naoroji

✓ 4. Mahavdev Govind Ranade

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Q.74 In which year was the 'Bharatiya Sakshya Bill' passed in India?

Ans
1. 2023 ✓
2. 2024 ✗
3. 2022 ✗
4. 2021 ✗

Q.75 Which of the following river systems in Rajasthan is the most extensive and transient with its source near Pushkar, splitting into two streams known as 'Saraswati' and 'Sabarmati'?

Ans
1. Tapti River ✗
2. Yamuna River ✗
3. Godavari River ✗
4. Luni River ✓

Q.76 Where in India is the 'Basilica of Bom Jesus' building located?

Ans
1. Ranchi ✗
2. Mumbai ✗
3. Delhi ✗
4. Goa ✓

Q.77 Who among the following Indian won the UN Military Gender Advocate of the Year award in 2023?

Ans
1. Major Radhika Sen ✓
2. Major Wamika Sen ✗
3. Major Monika Sen ✗
4. Major Ananya Sen ✗

Q.78 The fourth Quad Leaders' Summit of September 2024 was held at which place in the United States?

Ans
1. Dallas ✗
2. New York ✗
3. Wilmington ✓
4. Chicago ✗

Q.79 State Highways in India primarily link which of the following?

Ans ✗ 1. Rural areas and villages with state capitals

✗ 2. District headquarters with other places of the district

✗ 3. Extreme parts of the country with New Delhi

✓ 4. State capitals with different district headquarters

Q.80 The term 'Pallavi' relates to the first or the second thematic lines of the composition in which of the following music?

Ans ✗ 1. Classical Urdu music

✓ 2. Classical Carnatic music

✗ 3. Classical Hindustani music

✗ 4. Classical Tribal and Folk music

Q.81 In which year was the first Regional Rural Bank established?

Ans ✗ 1. 1991

✓ 2. 1975

✗ 3. 1980

✗ 4. 1982

Q.82 The Abhinav Bharat Mandir (Young India Society) was founded by _____ and his brother as a secret organisation during the Indian War for Independence.

Ans ✗ 1. Sardar Vallabhbhai Patel

✗ 2. Damodar Hari Chapekar

✗ 3. Mahadev Govind Ranade

✓ 4. Vinayak Damodar Savarkar

Q.83 Which of the following states has the highest sex ratio (females per 1000 males) according to the Census 2011?

Ans ✓ 1. Kerala

✗ 2. Tamilnadu

✗ 3. Himachal Pradesh

✗ 4. Punjab

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Q.84 In March 2023, India rejected Johnson and Johnson's attempt to extend its monopoly on the manufacturing of which TB drug, invoking Section 3(d) of the Indian Patent Law?

Ans ✗ 1. Ethambutol

✗ 2. Isoniazid

✗ 3. Rifampin

✓ 4. Bedaquiline

Q.85 Who wrote the book 'The Discovery of India'?

Ans ✓ 1. Jawaharlal Nehru

✗ 2. Bhagat Singh

✗ 3. Maulana Abul Kalam Azad

✗ 4. Mahatma Gandhi

Q.86 Which of the following is involved in the process of privatisation?

Ans ✗ 1. Increasing government control over the enterprise

✗ 2. Abolishing private property rights

✓ 3. Selling shares to the public through an initial public offering (IPO)

✗ 4. Nationalising private companies

Q.87 How many stanzas are there in the poem 'Nandikkalambakam'?

Ans ✓ 1. 80 stanzas

✗ 2. 60 stanzas

✗ 3. 50 stanzas

✗ 4. 70 stanzas

Q.88 The Bills of Lading Bill, 2024 was introduced by which of the following ministries in August 2024?

Ans ✗ 1. Ministry of Civil Aviation

✗ 2. Ministry Of Home Affairs

✗ 3. Ministry of Commerce and Industry

✓ 4. Ministry of Ports, Shipping and Waterways

Q.89 When did HH Dixon give the first detailed description of the cohesion-tension theory explaining the water transport in xylem?

Ans ✗ 1. 1890

✗ 2. 1937

✓ 3. 1914

✗ 4. 1982

Q.90 Who among the following is the author of 'Adipurana'?

Ans ✗ 1. Amoghvarsha

✗ 2. Krishna

✓ 3. Jinasena

✗ 4. Rishabhdeva

Q.91 Neeraja Prabhakar was nominated Chairperson of the Research Advisory Committee (RAC) of _____ in 2023.

Ans ✗ 1. ICAR-Central Institute of Research on Cotton Technology, Mumbai

✓ 2. ICAR-Indian Institute of Oil Palm Research (IIOPR), Pedavegi

✗ 3. ICAR-Central Avian Research Institute, Izatnagar

✗ 4. ICAR-National Dairy Research Institute, Karnal

Q.92 A reproductive method in which a single parent is capable of producing offsprings is called _____.

Ans ✗ 1. Pollination

✓ 2. Asexual Reproduction

✗ 3. Fertilization

✗ 4. Sexual Reproduction

Q.93 The fourth state of matter 'PLASMA' is a/an _____.

Ans ✗ 1. state between liquid and gas

✗ 2. neutral gas with fewer electrons

✗ 3. ionized gas

✓ 4. ionised gas with ions and electrons in an almost equal number

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Q.94 Which of the following substances produces hydroxide ions when dissolved in water?

Ans ✗ 1. Sulphur dioxide

✗ 2. Carbon dioxide

✔ 3. Ammonia

✗ 4. Nitrogen dioxide

Q.95 Who among the following Carnatic music composers is known for his compositional contributions in Telugu and Sanskrit languages, particularly in praise of Lord Rama?

Ans ✗ 1. Purandara Dasa

✗ 2. Annamacharya

✔ 3. Tyagaraja

✗ 4. Muthuswami Dikshitar

Q.96 Which of the following diagrams accurately depicts the properties of convex lenses?
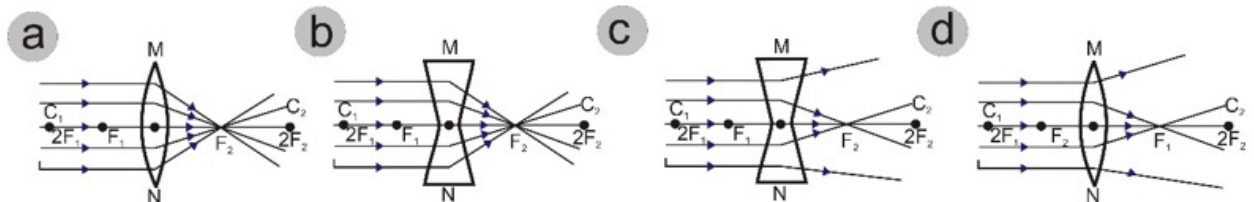
Ans ✗ 1. d

✗ 2. b

✔ 3. a

✗ 4. c

Q.97 In which of the following years has Dinesh Goswami committee been formed for Electoral Reforms?

Ans ✔ 1. 1990

✗ 2. 1998

✗ 3. 2000

✗ 4. 2005

Q.98 With reference to agriculture in India, what is 'Barani'?

Ans ✗ 1. Variety of maize

✗ 2. Shifting agriculture

✓ 3. Rainfed farming

✗ 4. Deity of agriculture

Q.99 In the context of genetics, what is the primary purpose of pedigree analysis?

Ans ✗ 1. To analyse the nutritional requirements of different organisms

✓ 2. To track the inheritance of specific traits across generations within a family

✗ 3. To measure the physical traits of individuals in a population

✗ 4. To study the ecological interactions between species in an environment

Q.100 Which of the following is the Keynesian approach to the degree of wage and price flexibility in the labour market?

Ans ✗ 1. Wages are flexible but prices are sticky.

✓ 2. Wages and prices are sticky.

✗ 3. Wages are sticky but prices are flexible.

✗ 4. Wages and prices are fully flexible.

Q.101 In which of the following years was the All India Muslim League founded?

Ans ✓ 1. 1906

✗ 2. 1914

✗ 3. 1919

✗ 4. 1905

Q.102 Which of the following Sultans of Delhi adopted the policy of Blood and Iron?

Ans ✗ 1. Alauddin Khalji

✗ 2. Shamsuddin Iltutmish

✓ 3. Ghiyasuddin Balban

✗ 4. Mubarak Shah

Q.103 Ritu Negi, who was awarded with the Arjuna Awards for outstanding performance in Sports and Games 2023, is a player related to which of the following games?

Ans   ✗ 1. Boxing

      ✗ 2. Archery

      ✗ 3. Kho-Kho

      ✓ 4. Kabaddi

Q.104 What is the major rationale of the Government of India to set up the Agricultural Prices Commission?

Ans   ✗ 1. To determine the prices of seeds supplied by the government

      ✗ 2. To determine the prices of agricultural goods sold by the government

      ✗ 3. To determine the prices of agricultural goods sold in the market

      ✓ 4. To determine the prices of agricultural goods procured from farmers

Q.105 Which of the following aspects is covered by the Ayushman Sahakar Scheme?

Ans   ✓ 1. Healthcare and Education infrastructure

      ✗ 2. Housing infrastructure

      ✗ 3. Physical infrastructure

      ✗ 4. Agriculture infrastructure

Q.106 Under which Article of the Indian Constitution can a member of the Public Service Commission be removed by the President of India?

Ans   ✓ 1. Article 317

      ✗ 2. Article 314

      ✗ 3. Article 318

      ✗ 4. Article 315

Q.107 Which of the following is the general trend of rainfall distribution across the northern plains of India?

Ans   ✗ 1. It is a uniform distribution across the region.

      ✗ 2. It increases from east to west.

      ✓ 3. It decreases from east to west.

      ✗ 4. It decreases from west to east.

Q.108 The 7ᵗʰ meeting of the UN Committee of Experts on Business and Trade Statistics, organised by the World Trade Organization (WTO) in September 2024, was held at which place?

Ans ✔ 1. Geneva

✗ 2. Budapest

✗ 3. Madrid

✗ 4. Beijing

Q.109 Who among the following introduced the Boilers Bill, 2024 in Rajya Sabha in August 2024?

Ans ✔ 1. Union Minister for Commerce and Industry

✗ 2. Union Minister for Minority Affairs

✗ 3. Union Minister for Finance

✗ 4. Union Minister for Tribal Affairs

Q.110 In which of the following cases was 'the basic structure doctrine' recognised for the first time?

Ans ✗ 1. LIC of India case

✗ 2. Kumar Padma Prasad case

✔ 3. Kesavananda Bharti case

✗ 4. Berubari Union case

Q.111 Which of the following union territories has the highest literacy rate among males in India according to Census 2011?

Ans ✗ 1. Puducherry

✗ 2. Andaman and Nicobar Islands

✔ 3. Lakshadweep

✗ 4. Delhi

Q.112 In 1978, the _____ Amendment to the Constitution removed the right to the property from the list of the fundamental rights and converted it into a simple legal right under Article 300A.

Ans ✗ 1. 43rd

✗ 2. 42nd

✓ 3. 44th

✗ 4. 45th

Q.113 Which of the following teams won the Season 10 of Pro Kabaddi League (PKL), concluded in March 2024?

Ans ✗ 1. Jaipur Pink Panthers

✓ 2. Puneri Paltan

✗ 3. Patna Pirates

✗ 4. Haryana Steelers

Q.114 Which Indian government scheme is specifically aimed at providing at least 100 days of guaranteed wage employment to rural households?

Ans ✗ 1. Pradhan Mantri Rozgar Protsahan Yojana (PMRPY)

✗ 2. Pradhan Mantri Kaushal Vikas Yojana (PMKVY)

✓ 3. Mahatma Gandhi National Rural Employment Guarantee Act (MGNREGA)

✗ 4. National Rural Livelihood Mission (NRLM)

Q.115 The joint Air Force exercise known as 'GARUDA-VII' was held between:

Ans ✓ 1. India and France

✗ 2. India and Malaysia

✗ 3. India and Sudan

✗ 4. India and South Africa

Q.116 In April 2023, India's first Laser Interferometer Gravitational Waves Observatory project was approved to be established in which of the following states?

Ans ✓ 1. Maharashtra

✗ 2. Uttar Pradesh

✗ 3. Rajasthan

✗ 4. Odisha

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Q.117 Which of the following is NOT included in the Fundamental Duties enshrined in the Indian Constitution?

Ans   ✗ 1. To safeguard public property and to abjure violence

      ✓ 2. To pay taxes

      ✗ 3. To value and preserve the rich heritage of the country's composite culture

      ✗ 4. To cherish and follow the noble ideals that inspired the national struggle for freedom

Q.118 Which of following is NOT a measure to improve agricultural marketing?

Ans   ✗ 1. Better infrastructural facilities

      ✗ 2. Regulated markets to protect farmer from malpractice

      ✓ 3. Manupulation by big traders

      ✗ 4. Providing fair price for farmer produce

Q.119 What is the term of office of the Chairmen and Members of the National Commission of Scheduled Tribes?

Ans   ✗ 1. 5.5 Years

      ✓ 2. 03 Years

      ✗ 3. 06 Years

      ✗ 4. 04 Years

Q.120 Which of the following is NOT a part of the electoral college for the election of the President?

Ans   ✗ 1. Elected members of the Lok Sabha

      ✓ 2. Nominated members of the Rajya Sabha

      ✗ 3. Elected members of the State Assembly

      ✗ 4. Elected members of the Rajya Sabha

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रेल भर्ती बोर्ड / **RAILWAY RECRUITMENT BOARDS**

सी ई एन आर पी एफ - ०१/२०२४ - CEN RPF - 01/2024

Test Date	12/12/2024
Test Time	12:30 PM - 2:00 PM
Subject	Recruitment of Sub Inspector Executive in Railway Protection Force and Railway Protection Special Force

* Note
Correct Answer will carry 1 mark per Question.
Incorrect Answer will carry 1/3 Negative mark per Question.

1. Options shown in green color with a tick icon are correct.
2. Chosen option on the right of the question indicates the option selected by the candidate.

Section : **Arithmetic**

Q.1 What time (in seconds) is required for a 284 m long train to cross a 676 m long tunnel, if the train travels at a speed of 18 km/h?

Ans
   ✗ 1. 193
   ✗ 2. 195
   ✗ 3. 188
   ✓ 4. 192

Q.2 The average price of three items of furniture is Rs 15990. If their prices are in the ratio 3:5:7, the price of the costliest item (in Rs) is

Ans
   ✗ 1. 7462
   ✗ 2. 3198
   ✓ 3. 22386
   ✗ 4. 5330

Q.3 The smallest 1-digit number to be added to the 6-digit number 723265 so that it is completely divisible by 11 is:

Ans
   ✗ 1. 2
   ✗ 2. 6
   ✗ 3. 4
   ✓ 4. 7

Q.4 A number when increased by 50 %', gives 3900. The number is:

Ans
   ✗ 1. 7800
   ✗ 2. 5200
   ✗ 3. 1300
   ✓ 4. 2600

Q.5 The average price of three items of furniture is Rs 15945. If their prices are in the ratio 3:5:7, the price of the costliest item (in Rs) is

Ans
   ✗ 1. 7441
   ✗ 2. 3189
   ✓ 3. 22323
   ✗ 4. 5315

Q.6 A 372 m long train crosses a man walking at a speed of 6.9 km/h in the opposite direction in 24 seconds. What is the speed (in km/h) of the train?

Ans ✔ 1. 48.9

✗ 2. 51.3

✗ 3. 46.5

✗ 4. 49.2

Q.7 The areas of three adjacent faces of a solid cuboid are 192 cm², 242 cm² and 24 cm². What is the volume (in cm³) of the cuboid?

Ans ✗ 1. 1132

✗ 2. 1042

✗ 3. 1328

✔ 4. 1056

Q.8 The average of 41 numbers is 58. The average of the first 16 numbers is 46 and the average of the last 26 numbers is 66. If the 16th number from the beginning is excluded, then what is the average of the remaining numbers?

Ans ✔ 1. 57.6

✗ 2. 55.81

✗ 3. 53.107

✗ 4. 61.1

Q.9 Mamta and Geeta invest in a business in the ratio 1 : 11. If total profit is Rs. 4500, then what is difference between the profit (in Rs.) of Mamta and Geeta?

Ans ✔ 1. 3750

✗ 2. 3900

✗ 3. 3850

✗ 4. 3700

Q.10 Which of the following fractions is the largest?

$\dfrac{2}{8}, \dfrac{7}{24}, \dfrac{51}{76}, \dfrac{82}{85}$

Ans ✗ 1. $\dfrac{51}{76}$

✔ 2. $\dfrac{82}{85}$

✗ 3. $\dfrac{7}{24}$

✗ 4. $\dfrac{2}{8}$

Q.11 In an election between two candidates, 75% of the eligible voters cast their votes and 6% of the votes cast were declared invalid. A candidate got 15228 votes, which were 90% of the total valid votes. Find the total number of eligible voters.

Ans ✗ 1. 25600

✔ 2. 24000

✗ 3. 27000

✗ 4. 24850

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Q.12 If third proportional of 48 and 24 be x, then what is the value of x?

Ans
✗ 1. 15

✗ 2. 13

✔ 3. 12

✗ 4. 10

Q.13 Find the gain percentage, given that Anubha sold her scooter for ₹97830 gaining $\frac{1}{5}$th of the selling price.

Ans
✗ 1. 30%

✗ 2. 35%

✗ 3. 40%

✔ 4. 25%

Q.14 The following bar graph represents the export of sugarcane (in lakh ₹) during five years. Study the bar graph carefully and answer the question given below:
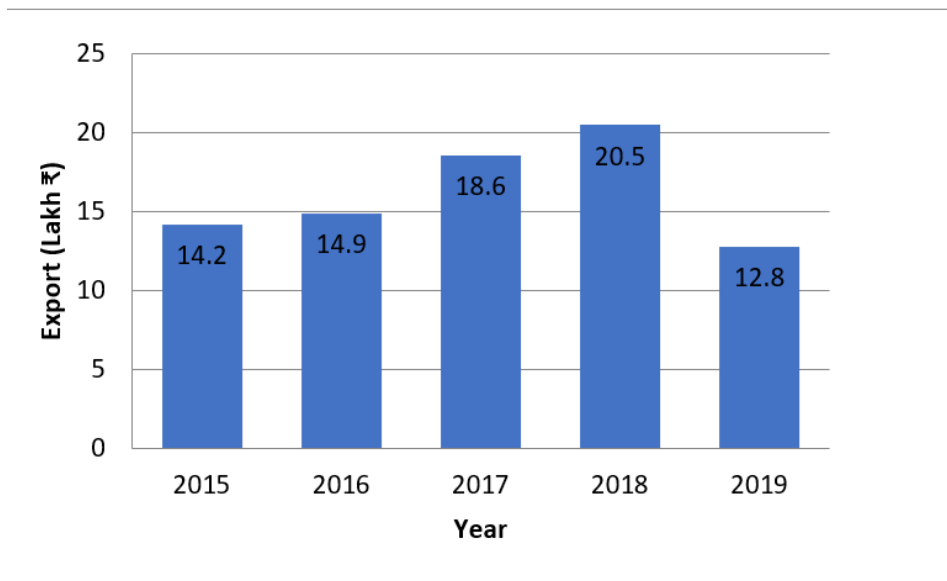
What is the approximate per cent decrement in export in 2019 in comparison to the average export during these five years?

Ans
✗ 1. 22%

✔ 2. 21%

✗ 3. 19%

✗ 4. 20%

Q.15 If x varies inversely as y^3 - 1 and is equal to 3 when y = 2, find x when y = 4.

Ans
✗ 1. $\frac{1}{4}$

✗ 2. $\frac{2}{4}$

✔ 3. $\frac{1}{3}$

✗ 4. $\frac{3}{3}$

Q.16 If p = $\{(-1.5) \times (-8.2) - 3.3\}$ then find the sum of the digits in p^3.

Ans
✗ 1. 16

✔ 2. 18

✗ 3. 17

✗ 4. 15

Q.17 The difference between the simple interest and the compound interest, compounded annually, on a certain sum of money for 2 years at 14% per annum is ₹633. Find the sum. [Give your answer to integral number without rounded off.]

Ans ✗ 1. ₹32313

✔ 2. ₹32295

✗ 3. ₹32288

✗ 4. ₹32282

Q.18 By selling an article at $\frac{6}{14}$ of its actual selling price, Sharad incurs a loss of 12%. If he sells it at 90% of its actual selling price, then the profit percentage is:

Ans ✗ 1. 87.9%

✗ 2. 85.4%

✗ 3. 85.9%

✔ 4. 84.8%

Q.19 Anmol completes his journey in 15 hours. He covers half the distance at 62 km/h and the rest at 93 km/h. What is the length of the journey (in Km)?

Ans ✔ 1. 1116

✗ 2. 1117

✗ 3. 1114

✗ 4. 1110

Q.20 The area of a square plot is 7569 m^2. The length of each side of the plot (in m) is:

Ans ✗ 1. 63

✗ 2. 97

✔ 3. 87

✗ 4. 69

Q.21 A shopkeeper sells an item for ₹953.7 after giving two successive discounts of 49% and 75% on its marked price. Had he not given any discount, he would have earned a profit of 10%. What is the cost price (in ₹) of the item?

Ans ✗ 1. 6796

✗ 2. 6794

✔ 3. 6800

✗ 4. 6763

Q.22 During sale, Raghav bought a notebook marked for ₹50 at 10% discount and a pen marked for ₹100 at 83% discount. How much (in ₹) did he save due to sale?

Ans ✗ 1. 91

✗ 2. 89

✔ 3. 88

✗ 4. 86

Q.23 Express the following into vulgar fraction $0.16\overline{9} + 0.\overline{3}$.

Ans ✗ 1. $\dfrac{151}{990}$

✔ 2. $\dfrac{151}{300}$

✗ 3. $\dfrac{151}{900}$

✗ 4. $\dfrac{152}{300}$

Q.24 Find the value of $\left[(20 \times 13) \times \left\{ 4 \div 4 \times \dfrac{(19 - 13)}{3} \right\} \right]$

Ans ✗ 1. 510

✗ 2. 527

✔ 3. 520

✗ 4. 525

Q.25 A flask is full of 20% sulphuric acid solution. A part of this 20% sulphuric acid solution is replaced by a 4% sulphuric acid solution and in this process 10% sulphuric acid solution is obtained. What fraction of 20% sulphuric acid solution is replaced from the flask?

Ans ✔ 1. $\dfrac{5}{8}$

✗ 2. $\dfrac{7}{8}$

✗ 3. $\dfrac{3}{5}$

✗ 4. $\dfrac{2}{5}$

Q.26 The smallest natural number which is divisible by 24, 16, 15 and 40 is:

Ans ✗ 1. 172

✗ 2. 245

✔ 3. 240

✗ 4. 180

Q.27 The value of
$$\dfrac{4}{7} + \dfrac{5}{7} + \dfrac{3}{14} + \dfrac{1}{7} - 2 =$$

Ans ✗ 1. $\dfrac{1}{14}$

✗ 2. $-\dfrac{8}{14}$

✗ 3. $\dfrac{5}{14}$

✔ 4. $-\dfrac{5}{14}$

Q.28 The sides of a triangle are 60 cm, 61 cm, and 11 cm. What is its area? (in cm²)

Ans ✔ 1. 330

✗ 2. 309

✗ 3. 349

✗ 4. 328

Q.29 A bank offers 9.6% compound interest per annum calculated on a half-yearly basis. A customer deposits ₹8908 each on 1 January and 1 July of a year. At the end of the year, the amount he would have gained by way of interest is _____. [Give your answer correct to 2 decimal places.]

Ans ✗ 1. ₹1299.47

✗ 2. ₹1313.27

✓ 3. ₹1303.27

✗ 4. ₹1303.08

Q.30 The number 18579285492174 is divisible by:

Ans ✗ 1. 5

✓ 2. 11

✗ 3. 9

✗ 4. 4

Q.31 Which of the following fractions is the largest?

$$\frac{3}{5}, \ \frac{2}{44}, \ \frac{40}{47}, \ \frac{35}{53}$$

Ans ✓ 1. $\frac{40}{47}$

✗ 2. $\frac{2}{44}$

✗ 3. $\frac{3}{5}$

✗ 4. $\frac{35}{53}$

Q.32 A person covers certain distance in 9 hours at a speed of 7 km/h and some more distance in 5 hours at a speed of 5 km/h. Find his average speed for the entire distance covered.

Ans ✗ 1. $8\frac{2}{7}$

✗ 2. $5\frac{2}{7}$

✓ 3. $6\frac{2}{7}$

✗ 4. $7\frac{2}{7}$

Q.33 Find the simple interest (in ₹) on ₹2000 at 6.5% per annum rate of interest for the period from 3 February 2023 to 17 April 2023

Ans ✓ 1. 26

✗ 2. 27

✗ 3. 25

✗ 4. 24

Q.34 The average marks of 35 students is 52. If each student's marks are decreased by 3, what will be the sum of the digits of the new average?

Ans ✗ 1. 15

✓ 2. 13

✗ 3. 12

✗ 4. 14

Q.35 The side of a rhombus is 20 cm and the length of the one of the diagonals is 32 cm. Find the area (in cm²) of the rhombus.

Ans ✗ 1. 484

✗ 2. 560

✓ 3. 384

✗ 4. 424

Section : General Intelligence and Reasoning

Q.36 Refer to the following letter, number and symbol series and answer the question that follows. Counting to be done from left to right only.

(Left) M % $ F I 5 * £ 8 € € 9 M Z @ & 6 1 3 @ J £ (Right)

If all the numbers are dropped from the series, which of the following will be sixth from the left?

Ans ✗ 1. F

✗ 2. $

✓ 3. *

✗ 4. I

Q.37 Select the set in which the numbers are related in the same way as are the numbers of the following sets. (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding / subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

(11, 60, 19)

(23, 78, 16)

Ans ✓ 1. (18, 78, 21)

✗ 2. (33, 101, 18)

✗ 3. (48, 139, 22)

✗ 4. (38, 89, 7)

Q.38 Select the correct mirror image of the given figure when the mirror is placed at line MN as shown.


Ans ✓ 1. ℓ Ә H Ʞ M И

✗ 2. ℓ Ә H Ʞ N M

✗ 3. ℓ Ʞ H G M И

✗ 4. H G 9 Ʞ M И
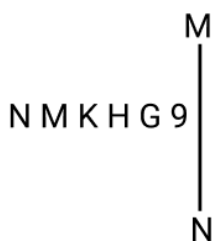
Q.39 IAEH is related to KCGJ in a certain way based on the English alphabetical order. In the same way, LDHK is related to NFJM. To which of the following is OGKN related, following the same logic?

Ans ✗ 1. IQPM

✗ 2. QIPM

✗ 3. IQMP

✓ 4. QIMP

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Q.40 Four of the following five figures are alike in a certain way and thus form a group. Which figure DOES NOT belong to that group?


(A) (B) (C) (D) (E)
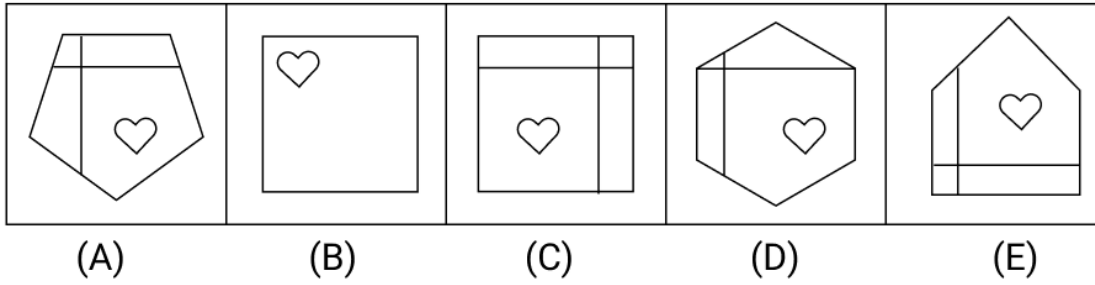
Ans ✗ 1. C

✗ 2. E

✗ 3. D

✔ 4. B

Q.41 Six people, named W, X, Y, Z, T and U, each are of different ages. The age of X is 10. The age of Y is five times the age of W. The age of Z is one-fourth the age of U. The age of W is two times the age of Z. The age of X is one-fourth the age of Y. If the age of U is one-third the age of T, what is the age of T?

Ans ✗ 1. 58

✗ 2. 45

✔ 3. 48

✗ 4. 68

Q.42 Identify the figure given in the options which when put in place of the question mark (?) will logically complete the series.
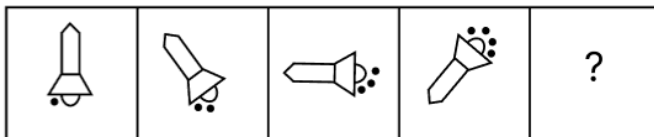
Ans 1.

✔

2.

✗

3.

✗

4.

✗

Q.43 5 is related to 28 following a certain logic. Following the same logic, 3 is related to 12. To which of the following is 24 related, following the same logic?

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding / subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

Ans ✗ 1. 587

✔ 2. 579

✗ 3. 586

✗ 4. 597

Q.44 Seven boxes U, V, W, X, P, Q and R are kept one over the other but not necessarily in the same order. V is kept second from the bottom. Only three boxes are kept between V and R. X is kept at one of the positions below V. Only U is kept between R and W. P is kept at one of the positions above R. How many boxes are kept between X and P?

Ans ✗ 1. One

✗ 2. Four

✔ 3. Five

✗ 4. Three

Q.45 Which of the following letter-clusters should replace # and % so that the pattern and relationship followed between the letter-cluster pair on the left side of :: is the same as that on the right side of :: ?

\# : PRM :: NPK : %

Ans ✗ 1. # = NHG, % = SKI

✗ 2. # = MJH, % = PRV

✔ 3. # = KMH, % = SUP

✗ 4. # = NLH, % = NJH

Q.46 In a certain code language, 'MORE' is coded as '4876' and 'WORM' is coded as '6783'. What is the code for 'W' in the given code language?

Ans ✗ 1. 6

✗ 2. 7

✔ 3. 3

✗ 4. 8

Q.47 Based on the English alphabetical order, three of the following four letter-cluster pairs are alike in a certain way and thus form a group. Which pair DOES NOT belong to that group?

(Note: The odd one out is not based on the number of consonants/vowels or their position in the letter-cluster pair.)

Ans ✗ 1. ID : GB

✗ 2. UP : SN

✗ 3. KF : ID

✔ 4. MH : KE

Q.48 Based on the English alphabetical order, three of the following four letter-clusters are alike in a certain way and thus form a group. Which letter-cluster DOES NOT belong to that group?

(Note: The odd one out is not based on the number of consonants/vowels or their position in the letter cluster.)

Ans ✗ 1. EHF

✓ 2. SWT

✗ 3. QTR

✗ 4. KNL

Q.49 P, Q, R, U, V and W live on six different floors of the same building. The lowermost floor in the building is numbered 1, the floor above it is numbered 2 and so on till the topmost floor, which is numbered 6.
U lives on an even numbered floor but not on floor number 4. Only two people live between U and V. Q lives on an odd numbered floor but not on the lowermost floor. Only two people live between Q and P. W lives immediately below Q.
How many people live between R and W?

Ans ✗ 1. One

✗ 2. Four

✓ 3. Two

✗ 4. Three

Q.50 Rajan starts from Point A and drives 12 km towards west. He then takes a left turn, drives 13 km, turns left and drives 14 km. He then takes a left turn and drives 18 km. He takes a final left turn, drives 2 km and stops at Point P. How far (shortest distance) and towards which direction should he drive in order to reach Point A again? (All turns are 90 degrees turns only unless specified)

Ans ✗ 1. 2 km to the south

✗ 2. 4 km to the south

✓ 3. 5 km to the south

✗ 4. 3 km to the south

Q.51 In a certain code language, 'BALE' is coded as '1579' and 'LUNG' is coded as '2461'. What is the code for 'L' in that language?

Ans ✗ 1. 5

✗ 2. 7

✓ 3. 1

✗ 4. 2

Q.52 Three of the following four letter-cluster pairs are alike in a certain way and thus form a group. Which is the letter-cluster pair that does NOT belong to that group?
(Note: The odd one out is not based on the number of consonants/vowels or their positions in the letter-cluster.)

Ans ✗ 1. PT - KN

✗ 2. TX - OR

✗ 3. LP - GJ

✓ 4. HL - CE

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Q.53 In a certain code language, 'BREW' is coded as '7462' and 'WHAT' is coded as '3751'. What is the code for 'W' in the given code language?

Ans   ✗ 1. 3

   ✗ 2. 2

   ✗ 3. 5

   ✓ 4. 7

Q.54 Rohit starts from Point A and drives 10 km towards West. He then takes a left turn, drives 6 km, turns left and drives 11 km. He then takes a left turn and drives 9 km. He takes a final left turn, drives 1 km and stops at Point P. How far (shortest distance) and towards which direction should he drive in order to reach Point A again? (All turns are 90 degree turns only unless specified.)

Ans   ✗ 1. 2 km to the South

   ✗ 2. 3 km to the North

   ✗ 3. 2 km to the North

   ✓ 4. 3 km to the South

Q.55 If 1 is added to each even digit and 2 is subtracted from each odd digit in the number 9738625, how many digits will appear more than once in the new number thus formed?

Ans   ✓ 1. Two

   ✗ 2. One

   ✗ 3. None

   ✗ 4. Three

Q.56 Which of the following letter-clusters should replace # and % so that the pattern and relationship followed between the letter-cluster pair on the left side of :: is the same as that on the right side of ::?
: HLP :: LPT : %

Ans   ✗ 1. # = AEI, % = SWO

   ✗ 2. # = AEI, % = UWA

   ✗ 3. # = BEI, % = SWA

   ✓ 4. # = AEI, % = SWA

Q.57 Select the letter-cluster from among the given options that can replace the question mark (?) in the following series.

BIP ELS HOV KRY ?

Ans   ✗ 1. BNU

   ✓ 2. NUB

   ✗ 3. NBU

   ✗ 4. BUN

Q.58 Refer to the following letter and symbol series and answer the question that follows. Counting to be done from left to right only.
(Left) T £ & Z N € Z % A € # * B I © £ * O J @ H A (Right)
How many such letters are there which are immediately preceded by a symbol and also immediately followed by a symbol?

Ans   ✗ 1. Four

   ✓ 2. Two

   ✗ 3. Zero

   ✗ 4. One

Q.59 Select the number from among the given options that can replace the question mark (?) in the following series.

17 21 30 46 71 ?

Ans ✗ 1. 106

✗ 2. 105

✗ 3. 109

✓ 4. 107

Q.60 If 'P' stands for '×' , 'Q' stands for '÷', 'R' stands for '−' and 'S' stands for '+' , what will come in place of the question mark '?' in the following equation?
(48 Q 6) P 3 S 18 R 12 S (13 P 2) S 40 R 28 = ?

Ans ✗ 1. 84

✗ 2. 50

✓ 3. 68

✗ 4. 92

Q.61 Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusion(s) logically follow(s) from the statements.

Statements:
All computers are desktops.
All desktops are laptops.
No computer is a phone.

Conclusions:
(I) No desktop is a phone.
(II) No laptop is a phone.

Ans ✗ 1. Only conclusion I follows.

✗ 2. Both conclusions (I) and (II) follow.

✗ 3. Only conclusion II follows.

✓ 4. Neither conclusion (I) nor (II) follows.

Q.62 In a certain code language,

A ; B means 'A is the sister of B',

A = B means 'A is the daughter of B',

A < B means 'A is the son of B',

and A + B means 'A is the father of B'.

How is T related to O if 'T < A ; N = G + O'?

Ans ✗ 1. Sister's daughter

✓ 2. Sister's son

✗ 3. Sister's mother

✗ 4. Sister's father

Q.63 Seven boxes, A, B, C, D, E, F and G, are kept one over the other but not necessarily in the same order. Only three boxes are kept above F. Only one box is kept between D and F. Only three boxes are kept between D and B. B is kept at some place above F. G is kept immediately below B. E is kept at one of the places above A. C is not kept immediately above or below D. How many boxes are kept above G?

Ans ✔ 1. 2

✘ 2. 1

✘ 3. 3

✘ 4. 4

Q.64 If 2 is added to each even digit and 1 is subtracted from each odd digit in the number 6172359, what will be the sum of the last two digits from the left in the new number thus formed?

Ans ✘ 1. 10

✘ 2. 8

✘ 3. 6

✔ 4. 12

Q.65 A is the sister of B's son C. K is the father of C, and L is the father of K. How is A related to L?

Ans ✘ 1. Son's wife

✘ 2. Daughter's daughter

✘ 3. Son's son

✔ 4. Son's daughter

Q.66 C, D, E, F, G, H and U are sitting around a circular table facing the centre of the table. Only two people sit between D and G, when counted from the left of G. U sits third to the left of E. H sits to the immediate right of E. H sits second to the left of D. C is not an immediate neighbour of U. Who sits third to the right of F?

Ans ✔ 1. H

✘ 2. C

✘ 3. E

✘ 4. G

Q.67 Which of the following letter-number clusters will replace the question mark (?) in the given series to make it logically complete?

TWZ19, JMP31, ZCF43, PSV55, ?

Ans ✘ 1. EAX67

✘ 2. FAY67

✘ 3. FBX67

✔ 4. FIL67

Q.68 G, H, I, J, M, N and O are sitting around a square table facing the centre of the table.
No one sits to the right of M. Only three people sit between M and O. Only two people sit between O and H. G sits third to the left of N. J sits to the immediate right of N.
How many people sit between I and H?

Ans ✔ 1. Three

✘ 2. Two

✘ 3. Four

✘ 4. One

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Q.69 Refer to the given letter, number, symbol series and answer the question that follows.

(Left) % 7 Y # K E G 6 3 C & T @ 2 5 4 D * S R + (Right)

How many such letters are there, that are immediately preceded by a number and also immediately followed by a symbol?

Ans
- ✗ 1. 4
- ✗ 2. 5
- ✗ 3. 2
- ✓ 4. 3

Q.70 Each letter in the word FORAGE is changed to the letter immediately succeeding it in the English alphabetical order and then all the letters thus formed are arranged in alphabetical order. Which of the following letters will be the second from the left in the new letter-cluster thus formed?

Ans
- ✗ 1. H
- ✗ 2. B
- ✓ 3. F
- ✗ 4. G

Section : General Awareness

Q.71 Ngozi Okonjo-Iweala, who was selected for the post of the Director General of the World Trade Organisation (WTO) until 31 August 2025, belongs to which African country?

Ans
- ✗ 1. South Africa
- ✓ 2. Nigeria
- ✗ 3. Algeria
- ✗ 4. Sudan

Q.72 Which of the following plant components is/are tasked with conveying water and nutrients from the roots to other parts of the plant?

Ans
- ✓ 1. Xylem
- ✗ 2. Stomata
- ✗ 3. Phloem
- ✗ 4. Epidermis

Q.73 Who among the following wrote the story book 'Dollar Bahu'?

Ans
- ✓ 1. Dr Sudha Murty
- ✗ 2. Prasanna Kumar Acharya
- ✗ 3. EB Havell
- ✗ 4. Aravind Adiga

Q.74 Which of the following colour revolutions is NOT correctly matched with its associated agricultural sector's significant increase in production in India since Independence?

Ans
- ✗ 1. White revolution - Milk
- ✗ 2. Green revolution - Foodgrain production
- ✓ 3. Blue revolution - Fruits and vegetables
- ✗ 4. Yellow revolution - Oilseeds

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Q.75 Which statement is FALSE about particles of a matter?

Ans ✔ 1. Motion of particles of matter is unaffected by any external forces.

✘ 2. Particles of matter have space between them.

✘ 3. Particles of matter attract each other.

✘ 4. Particles of matter are continuously moving.

Q.76 PV Sindhu was accompanied by whom as the flag bearer of India at the Paris 2024 Olympics opening ceremony?

Ans ✘ 1. PR Sreejesh

✘ 2. Aman Sehrawat

✔ 3. Sharath Kamal

✘ 4. Manu Bhaker

Q.77 Which of the following Amendments has added the 11th Fundamental Duty in the Indian Constitution?

Ans ✘ 1. 84th Amendment

✔ 2. 86th Amendment

✘ 3. 72nd Amendment

✘ 4. 80th Amendment

Q.78 In which of the following years did the Britishers establish their first factory in Bengal?

Ans ✘ 1. 1659

✘ 2. 1631

✔ 3. 1651

✘ 4. 1605

Q.79 Consider the following statements.

1. Elections are held every five years for the Lok Sabha and each Legislative Assembly.
2. The President can dissolve the Lok Sabha even before the completion of 5 years of the government, if the Prime Minister makes such a recommendation to the President.
3. The Council of Ministers automatically gets dissolved due to the death or resignation of the Prime Minister.
4. The Lok Sabha elections are conducted according to the 'first past the post' system.

Select the correct statement.

Ans ✘ 1. Only 1, 2 and 4

✘ 2. Only 1 and 4

✔ 3. All 1,2,3 and 4

✘ 4. Only 1 and 2

Q.80 Off the coast of which state of India was the New Generation Ballistic Missile 'Agni Prime' successfully flight-tested in June 2023?

Ans ✘ 1. Maharashtra

✘ 2. Rajasthan

✔ 3. Odisha

✘ 4. Andhra Pradesh

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Q.81 _____ is the just distribution of resources in which every Indian should be able to meet his/her basic needs and inequality in the distribution of wealth should be reduced.

Ans ✗ 1. Equality

✗ 2. Inclusion

✗ 3. Egalitarianism

✓ 4. Equity

Q.82 Which of the following states has the highest female literacy according to census of 2011?

Ans ✓ 1. Kerala

✗ 2. Mizoram

✗ 3. Goa

✗ 4. Tripura

Q.83 Which of the following optical instruments creates colourful beautiful patterns due to multiple reflections in plane mirrors?

Ans ✗ 1. Stereomicroscope

✗ 2. Telescope

✓ 3. Kaleidoscope

✗ 4. Magnifying glass

Q.84 Which Indian cricketer became the first batsman to cross 700 runs in a single World Cup edition during the 2023 ODI Cricket World Cup?

Ans ✗ 1. Rohit Sharma

✗ 2. Yashasvi Jaiswal

✗ 3. Shubman Gill

✓ 4. Virat Kohli

Q.85 Where is the Vajragiri Buddhist monastery located?

Ans ✓ 1. Odisha

✗ 2. Bihar

✗ 3. Uttar Pradesh

✗ 4. Madhya Pradesh

Q.86 Which of the following is the definition of Globalisation?

Ans ✗ 1. Globalisation is an outcome of agricultural policies that aim to transform the world towards greater interdependence and integration.

✗ 2. Globalisation is an outcome of trading policies that aim to transform the world towards greater interdependence and integration.

✗ 3. Globalisation is an outcome of industrial policies that aim to transform the world towards greater interdependence and integration.

✓ 4. Globalisation is an outcome of a set of various policies aimed at transforming the world towards greater interdependence and integration.

Q.87 In the context of plant and animal kingdoms, what does chemotaxonomy primarily focus on?

Ans ✗ 1. The examination of genetic sequences in mitochondrial DNA.

✔ 2. The classification of organisms based on their chemical composition.

✗ 3. The classification of organisms based on their ecological roles.

✗ 4. The classification of organisms based on their morphological characteristics.

Q.88 On which of the following dates was the Supreme Court of India established?

Ans ✔ 1. 26th January 1950

✗ 2. 28th January 1950

✗ 3. 22nd July 1950

✗ 4. 15th August 1950

Q.89 Which of the following states in India was the first to implement the Panchayati Raj system?

Ans ✔ 1. Rajasthan

✗ 2. West Bengal

✗ 3. Kerala

✗ 4. Maharashtra

Q.90 With reference to the Indian Monsoon, who among the following established the relationship between upper air circulations and atmospheric conditions over the Tibetan plateau?

Ans ✔ 1. P Koteswaram

✗ 2. Birbal Sahni

✗ 3. RK Sinha

✗ 4. Tessy Thomas

Q.91 Which of the following local storms is beneficial for tea, jute and rice cultivation?

Ans ✗ 1. Blossom showers

✔ 2. Nor Westers

✗ 3. Loo

✗ 4. Mango showers

Q.92 How do microfinance institutions (MFIs) contribute to financial inclusion in remote rural areas of India?

Ans ✔ 1. By establishing partnerships with local non-governmental organisations (NGOs) for outreach

✗ 2. By focusing exclusively on urban micro-enterprises

✗ 3. By offering standardised loan products similar to traditional banks

✗ 4. By relying solely on digital banking platforms for loan disbursement

Q.93 PM Gatishakti National Master Plan was launched in which year?

Ans ✗ 1. 2020

✔ 2. 2021

✗ 3. 2019

✗ 4. 2023

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Q.94 Who among the following composed the treatise, 'Mahabhashya'?

Ans ✔1. Patanjali

✘2. Banabhatt

✘3. Hala

✘4. Panini

Q.95 Who among the following served as India's first Deputy Prime minister?

Ans ✘1. Morarji Desai

✘2. Lal Bahadur Shastri

✘3. Jawaharlal Nehru

✔4. Sardar Vallabhbhai Patel

Q.96 In August 2024, Grinson George was appointed as the director of which of the following institutions?

Ans ✔1. Central Marine Fisheries Research Institute (CMFRI), Ernakulam

✘2. ICAR-National Dairy Research Institute, Karnal

✘3. ICAR-Central Institute of Research on Cotton Technology, Mumbai

✘4. ICAR-Central Avian Research Institute, Izatnagar

Q.97 How many of the following ways of losing citizenship have been prescribed in the Citizenship Act, 1955?

Ans ✘1. 2

✔2. 5

✘3. 3

✘4. 4

Q.98 The 15th BRICS summit unanimously decided to invite how many countries to become full members from 1 January 2024?

Ans ✔1. Six

✘2. Eight

✘3. Seven

✘4. Five

Q.99 Which round of the National Family Health Survey (NFHS) for maternal and child health and other associated indicators was launched by the Centre in December 2023?

Ans ✘1. NFHS-7

✘2. NFHS-4

✘3. NFHS-5

✔4. NFHS-6

Q.100 Bhanudeva II, the ruler of Jajnagar in Orissa helped Rai Rudra Dev of Warangal in his battle against _____, the Sultan of Delhi.

Ans ✔1. Ghiyasuddin Tughlaq

✘2. Bahlol Lodhi

✘3. Sikandar Lodhi

✘4. Firoz Shah Tughlaq

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Q.101 The first Turkish ruler who introduced pure Arabic coins in India was _____.

Ans
- ✗ 1. Qutubuddin Aibak
- ✗ 2. Alauddin Khilji
- ✗ 3. Balban
- ✓ 4. Iltutmish

Q.102 The Hazira-Vijaipur-Jagdishpur (HVJ) gas pipeline links Mumbai High with industries in which of the following regions of India?

Ans
- ✗ 1. Southern and eastern
- ✗ 2. Northern and eastern
- ✗ 3. Central and western
- ✓ 4. Western and northern

Q.103 Which of the following States/UTs DOES NOT have any SC population as per the Census 2011?

Ans
- ✗ 1. Sikkim
- ✓ 2. Andaman and Nicobar Islands
- ✗ 3. Tripura
- ✗ 4. Manipur

Q.104 Which of the following two organisations teamed up to develop India's first indigenous CAR-T cell therapy?

Ans
- ✗ 1. IIT Delhi and AIIMS Delhi
- ✓ 2. IIT Bombay and Tata Memorial Centre
- ✗ 3. IIT Ropar and PGI Chandigarh
- ✗ 4. IIT Bombay and IIT Madras

Q.105 Who among the following great personalities, along with his followers, founded the 'Brahmo Samaj of India' in 1866?

Ans
- ✗ 1. Debendranath Tagore
- ✗ 2. Raja Ram Mohan Roy
- ✗ 3. Dayananda Saraswati
- ✓ 4. Keshab Chandra Sen

Q.106 Former Lok Sabha MP from Assam Ramen Deka was appointed as Governor of which of the following states of India in July 2024?

Ans
- ✗ 1. Andhra Pradesh
- ✓ 2. Chhattisgarh
- ✗ 3. Maharashtra
- ✗ 4. Odisha

Q.107 Which of the following methods is used for the estimation of poverty in India?

Ans
- ✗ 1. Relative Poverty
- ✗ 2. Multidimensional Poverty Index
- ✓ 3. Head Count Ratio
- ✗ 4. Absolute Poverty

Q.108 The traditional folk music of Uttar Pradesh, featuring soulful melodies and often performed during weddings and festive occasions, is known as:

Ans   ✗ 1. Panihari

    ✗ 2. Baul

    ✔ 3. Kajari

    ✗ 4. Maand

Q.109 Match the (List-I - Geographical regions) with (List II - Reason for their distinct climate) and select your answer the code below:

(List-I geographical regions)	(List II reason for their distinct climate)
(a) Rajasthan	i. Houses have sloping roofs
(b) Tarai region	ii. Houses have thick walls and flat roofs
(c) Assam	iii. Houses are built on stilts
(d) Goa	iv. Experiences seasonal rain during October and November

Ans   ✗ 1. (a) iv (b) iii (c) ii (d) i

    ✔ 2. (a) ii (b) i (c) iii (d)iv

    ✗ 3. (a) iii (b) ii (c) i (d) iv

    ✗ 4. (a) iii (b) i (c) ii (d) iii

Q.110 Postulates of special theory of relativity are applicable to _____.

Ans   ✔ 1. inertial frames

    ✗ 2. stationary frames

    ✗ 3. all frames of references

    ✗ 4. accelerated frames

Q.111 Who among the following established the Khalji dynasty?

Ans   ✗ 1. Mubarak Shah Khalji

    ✗ 2. Arkali khan

    ✔ 3. Jalaluddin Khalji

    ✗ 4. Alauddin Khalji

Q.112 Intestinal hookworm disease in humans is caused by which species of Aschelminthes?

Ans   ✔ 1. Ancylostoma duodenale

    ✗ 2. Ascaris lumbricoides

    ✗ 3. Strongyloides stercoralis

    ✗ 4. Trichuris trichiura

Q.113 Vigyan Shri 2024 Awardee in the field of agricultural sciences, Dr. Anandharamakrishnan C, is the Director of which of the following institutions as on October 2024?

Ans   ✔ 1. CSIR-National Institute For Interdisciplinary Science and Technology, Thiruvananthapuram

    ✗ 2. ICAR-Central Institute on Fisheries Education, Mumbai

    ✗ 3. ICAR-Central Arid Zone Research Institute, Jodhpur

    ✗ 4. CSIR-Centre for Cellular Molecular Biology, Hyderabad

Q.114 Who assumed charge as Deputy Chief of the Naval Staff in October 2023?

Ans ✗ 1. Vice Admiral Anil Kumar Chawla

✗ 2. Vice Admiral Ajit Kumar

✗ 3. Vice Admiral R Hari Kumar

✓ 4. Vice Admiral Tarun Sobti

Q.115 On which document is the Concept of Directive Principles of State Policy based?

Ans ✗ 1. British Constitution

✗ 2. United States Constitution

✗ 3. Magna Carta

✓ 4. Irish Constitution

Q.116 Bhajan Lal Sharma took oath on 15 December 2023 as the Chief Minister of which of the following states of India?

Ans ✗ 1. Jharkhand

✗ 2. Haryana

✓ 3. Rajasthan

✗ 4. Madhya Pradesh

Q.117 Who was the first musician from Asia to be honoured with the Ramon Magsaysay Award for contributions to Carnatic music?

Ans ✗ 1. GN Balasubramaniam

✗ 2. Amrutha Venkatesh

✓ 3. MS Subbulakshmi

✗ 4. Sai Shravanam

Q.118 In which House of Parliament can a money bill be introduced?

Ans ✗ 1. Vidhan Parishad

✗ 2. Rajya Sabha

✓ 3. Lok Sabha

✗ 4. Vidhan Sabha

Q.119 The Skill India Mission, aimed at training over 40 crore people in India in different skills by 2022, is primarily facilitated by which of the following?

Ans ✗ 1. Pradhan Mantri Kaushal Vikas Yojana (PMKVY)

✓ 2. Both National Skill Development Corporation (NSDC) and Pradhan Mantri Kaushal Vikas Yojana (PMKVY)

✗ 3. National Career Service (NCS)

✗ 4. National Skill Development Corporation (NSDC)

Q.120 PM – Daksh Yojana is associated with:

Ans ✗ 1. protection from neighbouring countries

✓ 2. skill development training programmes

✗ 3. use of fertilisers in agriculture

✗ 4. precautionary health measures

Section : **Arithmetic**

Q.1 The pie-chart shows the data of sales (in percentage) of a company in four quarters.

Study the given pie-chart and answer the question that follows.

Sales

If the total production in a year is 4200 units, then the difference in sales in the 2nd and 4th quarters is (in units):

Ans ✗ 1. 200

✗ 2. 180

✔ 3. 210

✗ 4. 190

Q.2 Which number should replace both the question marks in the following equation?

$$\frac{?}{12} = \frac{363}{?}$$

Ans ✗ 1. 69

✗ 2. 56

✔ 3. 66

✗ 4. 75

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Q.3 The ratio of numbers of girls and boys participating in sports of a school is 1 : 5. If the number of girls is 243, determine the number of boys participating in the sports.

Ans ✗ 1. 1245

✔ 2. 1215

✗ 3. 1235

✗ 4. 1190

Q.4 Find the value of $\left[(60 \div 6) \times \left\{ \dfrac{16}{2} + \dfrac{15}{3} \times (6-3) \right\} \right]$

Ans ✔ 1. 230

✗ 2. 224

✗ 3. 242

✗ 4. 221

Q.5 The smallest 1-digit number to be added to the 6-digit number 623058 so that it is completely divisible by 11 is:

Ans ✗ 1. 8

✔ 2. 4

✗ 3. 1

✗ 4. 6

Q.6 The value of
$\dfrac{1}{5} + \dfrac{2}{5} + \dfrac{4}{10} + \dfrac{4}{5} - 1 =$

Ans ✗ 1. $\dfrac{17}{10}$

✗ 2. $\dfrac{12}{10}$

✗ 3. $-\dfrac{2}{10}$

✔ 4. $\dfrac{8}{10}$

Q.7 The average of 7 numbers is 57. If each number is increased by 5, what will the new average be?

Ans ✔ 1. 62

✘ 2. 67

✘ 3. 7

✘ 4. 57

Q.8 Sakshi invested a sum of ₹8400 at 5% per annum compound interest, componded annually. If she received an amount of ₹9261 after n years, the value of n is:

Ans ✘ 1. 3

✘ 2. 2.59999990463257

✔ 3. 2

✘ 4. 1

Q.9 A dishonest vendor claims that he is selling goods at their cost price. But he is weighing 725 grams for 1000 grams. What is his profit percentage (rounded off to 2 decimal places)?

Ans ✔ 1. 37.93

✘ 2. 40.58

✘ 3. 38.02

✘ 4. 39.3

Q.10 The area of a square plot is 32041 m^2. The length of each side of the plot (in m) is:

Ans ✘ 1. 199

✔ 2. 179

✘ 3. 157

✘ 4. 177

Q.11 Bhanu covers 200 km in a boat in 48 hours against the stream and he takes 30 hours with the stream then find the speed of the stream?

Ans ✘ 1. 3.95 km/h

✔ 2. 1.25 km/h

✘ 3. 3.12 km/h

✘ 4. 4.16 km/h

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Q.12 In a box, the average weight of dozen apples is 750 g. If 5 apples each of weight of 600 g are added, what would be the new average weight? (Up to one decimal place)

Ans ✗ 1. 750.8 g

✗ 2. 750.35 g

✗ 3. 705.325 g

✓ 4. 705.8 g

Q.13 A shopkeeper marks an article at ₹x and offers a discount of 20% on it. He sells it for ₹351 after charging VAT of 25% on the discounted price. What is the value of ₹ x?

Ans ✗ 1. ₹300

✗ 2. ₹600

✓ 3. ₹351

✗ 4. ₹500

Q.14 A person drove at 55 kmph for 6.5 hours, then increased his speed by 15 kmph, and reached the destination in another hour. Find the average speed (in kmph) of the person during the entire journey.

Ans ✗ 1. 53

✗ 2. 59

✗ 3. 60

✓ 4. 57

Q.15 850 gm of honey solution has 40% honey in it. How much honey should be added to make it 50% in the solution?

Ans ✗ 1. 90 gm

✗ 2. 141 gm

✗ 3. 212 gm

✓ 4. 170 gm

Q.16 The areas of three adjacent faces of a solid cuboid are 27 cm², 232 cm² and 174 cm². What is the volume (in cm³) of the cuboid?

Ans ✔ 1. 1044

✘ 2. 918

✘ 3. 1059

✘ 4. 1115

Q.17 A person drove at 71 kmph for 6.5 hours, then increased his speed by 15 kmph, and reached the destination in another hour. Find the average speed (in kmph) of the person during the entire journey.

Ans ✘ 1. 69

✔ 2. 73

✘ 3. 75

✘ 4. 70

Q.18 LCM and HCF of two numbers are 150 and 5 respectively. If one of the numbers is 30, then find the other number.

Ans ✔ 1. 25

✘ 2. 27

✘ 3. 24

✘ 4. 23

Q.19 Manav's average earning per month in the first three months of a year was ₹24328. In April, his earning was 50% more than the average earning in the first three months. If his average earning per month for the whole year is ₹76867, then what will be Manav's average earning (in ₹) per month from May to December?

Ans ✔ 1. 101616

✘ 2. 101619

✘ 3. 101621

✘ 4. 101614

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Q.20 The smallest 1-digit number to be added to the 6-digit number 726490 so that it is completely divisible by 11 is:

Ans ✔ 1. 5

✘ 2. 4

✘ 3. 3

✘ 4. 8

Q.21 Find the value of $\left[(15 \times 4) \times \left\{6 \div 6 \times \frac{(15-11)}{2}\right\}\right]$

Ans ✘ 1. 126

✘ 2. 101

✔ 3. 120

✘ 4. 136

Q.22 A sum, when invested at 20% simple interest per annum, amounts to ₹2160 after 3 years. What is the simple interest (in ₹) on the same sum at the same rate in 1 year?

Ans ✔ 1. 270

✘ 2. 1080

✘ 3. 540

✘ 4. 135

Q.23 Find the value of $\left[(27 \div 9) \times \left\{\frac{80}{8} + \frac{16}{2} \times (5-3)\right\}\right]$

Ans ✘ 1. 63

✔ 2. 78

✘ 3. 82

✘ 4. 81

Q.24 If x varies inversely as $y^3 - 1$ and is equal to 5 when y = 3, find x when y = 7.

Ans ✘ 1. $\frac{65}{172}$

✔ 2. $\frac{65}{171}$

✘ 3. $\frac{67}{171}$

✘ 4. $\frac{66}{172}$

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Q.25 The price (per litre) of petrol increases by 80%. By what percent should its consumption be reduced such that the expenditure on it increases by 35% only?

Ans   ✗ 1.   72%

      ✔ 2.   75%

      ✗ 3.   74%

      ✗ 4.   70%

Q.26 The capacity of a hemispherical bowl is 19,404 cm^3. What is its curved surface area (in cm^2)? (Take $\pi = \dfrac{22}{7}$)

Ans   ✗ 1. 7272

      ✗ 2. 1386

      ✗ 3. 4158

      ✔ 4. 2772

Q.27 During sale, Raghav bought a notebook marked for ₹100 at 49% discount and a pen marked for ₹105 at 40% discount. How much (in ₹) did he save due to sale?

Ans   ✗ 1. 94

      ✔ 2. 91

      ✗ 3. 92

      ✗ 4. 90

Q.28 A shopkeeper lists the price of a fan at 20% above its cost price and offers a 10% discount on its list price. If he earns a profit of ₹135, then what is the list price (in ₹) of the fan?

Ans   ✗ 1. 1929

      ✗ 2. 2242

      ✔ 3. 2025

      ✗ 4. 2067

Q.29 The smallest natural number which is divisible by 9, 6, 72 and 76 is:

Ans ✗ 1. 1359

✔ 2. 1368

✗ 3. 1338

✗ 4. 1327

Q.30 The population of a village was 140000. It increased by 15% in the first year and increased by 20% in the second year. Its population after two years is _____.

Ans ✗ 1. 189000

✔ 2. 193200

✗ 3. 161000

✗ 4. 168000

Q.31 If the radius of the base of a right circular cylinder is decreased by 12% and its height is increased by 175%, then what is the percentage increase (closest integer) in its volume?

Ans ✔ 1. 1.13

✗ 2. 0.92

✗ 3. 1.22

✗ 4. 0.91

Q.32 What will be difference in population 3 years ago and 2 years ago of a town, whose current population is 190000 and which is increasing at a rate of 25% every year?

Ans ✗ 1. 24670

✗ 2. 23770

✔ 3. 24320

✗ 4. 23570

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Q.33 Raghu completes his journey in 15 hours. He covers half the distance at 28 km/h and the rest at 32 km/h. What is the length of the journey (in Km)?

Ans ✓ 1. 448

✗ 2. 452

✗ 3. 451

✗ 4. 443

Q.34 The average price of three items of furniture is Rs 16005. If their prices are in the ratio 3:5:7, the price of the costliest item (in Rs) is

Ans ✓ 1. 22407

✗ 2. 7469

✗ 3. 3201

✗ 4. 5335

Q.35 Find the value of $\left[(72 \div 3) \times \left\{ \frac{88}{4} + \frac{19}{1} \times (8 - 7) \right\} \right]$

Ans ✗ 1. 991

✗ 2. 998

✓ 3. 984

✗ 4. 987

Section : General Intelligence and Reasoning

Q.36 Refer to the following letter, number and symbol series and answer the question that follows. Counting to be done from left to right only.

(Left) 7 F & C Q 7 % & # A 7 9 Q 8 * 1 5 Q V © M % (Right)

If all the letters are dropped from the series, which of the following will be sixth from the left?

Ans ✗ 1. 7

✗ 2. 8

✓ 3. #

✗ 4. &

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Q.37 NFLQ is related to RCPN in a certain way based on the English alphabetical order. In the same way, VZTK is related to ZWXH. To which of the given options is DTBE related to, following the same logic?

Ans ✗ 1. IPDB

✗ 2. GPEC

✓ 3. HQFB

✗ 4. IRGA

Q.38 Select the number from among the given options that can replace the question mark (?) in the following series.

14 27 53 92 144 ?

Ans ✓ 1. 209

✗ 2. 208

✗ 3. 205

✗ 4. 204

Q.39 Each of the digits in the number 7316485 is arranged in ascending order from left to right. The position(s) of how many digits will remain unchanged as compared to that in the original number?

Ans ✗ 1. Two

✓ 2. One

✗ 3. Three

✗ 4. None

Q.40 Two sets of numbers are given below. In each set of numbers, certain mathematical operation(s) on the first number result(s) in the second number. Similarly, certain mathematical operation(s) on the second number result(s) in the third number and so on. Which of the given options follows the same set of operations as in the given sets?

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 – Operations on 13 such as adding / subtracting /multiplying to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

48 - 96 - 86 - 98

14 - 28 - 18 - 30

Ans ✗ 1. 42 - 126 - 116 - 117

✔ 2. 24 - 48 - 38 - 50

✗ 3. 17 - 68 - 55 - 56

✗ 4. 17 - 119 - 102 - 106

Q.41 Each vowel in the word IAPETIC is changed to the letter immediately following it in the English alphabetical order and each consonant is changed to the letter immediately preceding it in the English alphabetical order. How many letters will appear exactly twice in the group of letters thus formed?
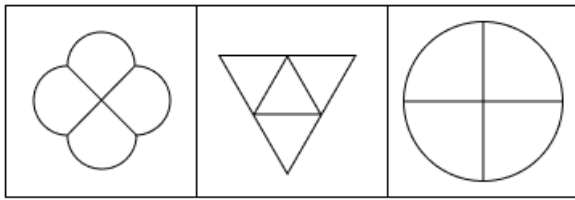
Ans ✗ 1. 0

✗ 2. 3

✗ 3. 1

✔ 4. 2

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Q.42 The 3 figures given below are alike in a certain way as they share certain feature(s). Select the option that shares the same features as the given figures.

Ans   1.

✗

2.

✗

3.

✗

4.

✔

Q.43 This question is based on the five, three-digit numbers given below.

(Left) 569 458 547 438 591 (Right)

(Example- 697 – First digit = 6, second digit = 9 and third digit = 7)

NOTE - All operations to be done from left to right.

What will be the resultant if the third digit of the highest number is added to the second digit of the lowest number?

Ans   ✗ 1. 3

✔ 2. 4

✗ 3. 2

✗ 4. 5

Q.44 In a certain code language, 'PINK' is coded as '2319' and 'PICK' is coded as '5129'. What is the code for 'C' in that language?

Ans ✗ 1. 2

✗ 2. 9

✔ 3. 5

✗ 4. 1

Q.45 Pranay starts from Point A and drives 8 km towards the East. He then takes a right turn, drives 6 km, turns right and drives 10 km. He then takes a right turn and drives 13 km. He takes a final right turn, drives 2 km and stops at Point P. How far (shortest distance) and towards which direction should he drive in order to reach Point A again? (All turns are 90 degrees turns only unless specified)

Ans ✗ 1. 6 km to the North

✗ 2. 6 km to the South

✔ 3. 7 km to the South

✗ 4. 7 km to the North

Q.46 Raj ranked 29th from the top and 37th from the bottom in his class. How many students are there in his class?

Ans ✗ 1. 67

✗ 2. 64

✗ 3. 66

✔ 4. 65

Q.47 In a certain code language, 'BREAKING' is coded as '268' and 'AVIATION' is coded as '364'. What is the code for 'CAMPAIGN' in the given code language?

Ans ✗ 1. 246

✔ 2. 256

✗ 3. 260

✗ 4. 252

Q.48 Each of P, Q, R, S, T, U and V has an exam on a different day of a week starting from Monday and ending on Sunday of the same week.

Only one person has exam between P and T. S has an exam on Tuesday. P has an exam on the day immediately before Q. V has an exam on the day immediately before U and immediately after R. T has an exam on Monday.

How many people have exams after R?

Ans ✗ 1. None

✗ 2. Three

✗ 3. One

✔ 4. Two

Q.49 **If 1 is added to each even digit and 1 is subtracted from each odd digit in the number 2934867, how many digits will appear more than once in the new number thus formed?**

Ans ✔ 1. None

✗ 2. One

✗ 3. Two

✗ 4. Three

Q.50 96 people are standing in a row facing north. Yoon is 79st from the right end, while Fang is 36th from the left end. How many people are there between Yoon and Fang?

Ans ✔ 1. 9

✗ 2. 7

✗ 3. 6

✗ 4. 8

Q.51 Select the pair that follows the same pattern as that followed by the two set of pairs given below. Both pairs follow the same pattern.

RWK : TUL

VSM : XQN

Ans ✗ 1. TUH : QWK

✗ 2. ONT : RKV

✓ 3. ZOO : BMP

✗ 4. CZP : FBQ

Q.52 What should come in place of the question mark (?) in the given series based on the English alphabetical order?

GEB IGD KIF MKH ?

Ans ✗ 1. OMI

✗ 2. ONJ

✓ 3. OMJ

✗ 4. ONI

Q.53 Three of the following four letter-cluster pairs are alike in a certain way and thus form a group. Which is the letter-cluster pair that does NOT belong to that group?
(Note: The odd one out is not based on the number of consonants/vowels or their positions in the letter-cluster.)

Ans ✗ 1. YW - SQ

✗ 2. TR - NL

✗ 3. PN - JH

✓ 4. KJ - FE

Q.54 Based on the English alphabetical order, three of the following four are alike in a certain way and thus form a group. Which is the one that DOES NOT belong to that group?

Ans ✗ 1. PKU

✗ 2. MHR

✗ 3. HCM

✓ 4. VPZ

Q.55 G, H, I, J, K and L each have different heights. Only two people are taller than K. Only J is taller than G. Only I is shorter than L.
Who is the fourth tallest?

Ans ✗ 1. L

✗ 2. K

✓ 3. H

✗ 4. G

Q.56 Two sets of numbers are given below. In each set of numbers, certain mathematical operation(s) on the first number results in the second number. Similarly, certain mathematical operation(s) on the second number results in the third number and so on. Which of the given options follows the same set of operations as in the given sets?
(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 – Operations on 13 such as adding / subtracting /multiplying to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)
48 - 70 - 92 - 114
53 - 75 - 97 - 119

Ans ✓ 1. 39 - 61 - 83 - 105

✗ 2. 59 - 81 - 93 - 125

✗ 3. 21 - 43 - 55 - 77

✗ 4. 64 - 86 - 98 - 110

Q.57 A is the mother of B. G is the sister of B's father C. K is the son of G. How is A related to K?

Ans ✗ 1. Mother's father

✓ 2. Mother's brother's wife

✗ 3. Mother's brother's son

✗ 4. Mother's brother's daughter

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Q.58 Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.

M

GgKLTy

N

Ans ✗ 1. LTyKpӘ

✗ 2. ɣTKLpӘ

✔ 3. ɣT⅃KpӘ
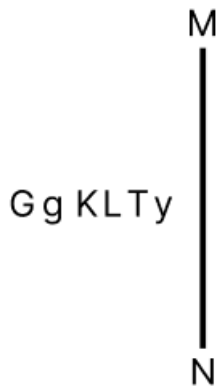
✗ 4. yT⅃KGg

Q.59 If 1 is added to each odd digit and 2 is subtracted from each even digit in the number 1457326, what will be difference between the highest and lowest digits in the new number thus formed?

Ans ✗ 1. 7

✔ 2. 8

✗ 3. 9

✗ 4. 6

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Q.60 Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.

Statements:

All lions are tigers.

All tigers are panthers.

All panthers are cats.

Conclusions:

(I): All lions are panthers.

(II): All tigers are cats.

Ans ✗ 1. Only conclusion (I) follows.

✓ 2. Both conclusions (I) and (II) follow.

✗ 3. Neither conclusion (I) nor (II) follows.

✗ 4. Only conclusion (II) follows.

Q.61 Which of the following letter-clusters should replace # and % so that the pattern and relationship followed between the letter-cluster pair on the left side of :: is the same as that on the right side of :: ?

: EHM :: ORW : %

Ans ✗ 1. # = LKY, % = MMJ

✓ 2. # = GJO, % = MPU

✗ 3. # = MKO, % = MMJ

✗ 4. # = POL, % = MLO

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Q.62 P, Q, R, S, U, V and W are sitting around a circular table facing the centre of the table.
Only two people sit between P and S when counted from the right of P. Only two people sit between S and R.
Only three people sit between P and Q. U sits to the immediate left of W.
Who sits third to the left of V?

Ans ✗ 1. P

✗ 2. U

✓ 3. W

✗ 4. Q

Q.63 P, Q, R, S, T, U and W are sitting around a circular table facing the centre of the table. R sits to the immediate right of Q. Only three people sit between R and U, when counted from the left of R. Only three people sit between Q and T. W sits to the immediate right of S. How many people sit between R and S, when counted from the left of S?

Ans ✗ 1. One

✗ 2. Four

✗ 3. Two

✓ 4. Three

Q.64 Refer to the following letter and symbol series and answer the question that follows. Counting to be done from left to right only.

(Left) * £ B K Ω G C D A @ U $ & T Y # E S % Q & R (Right)

How many such symbols are there each of which is immediately preceded by a letter and also immediately followed by a letter?
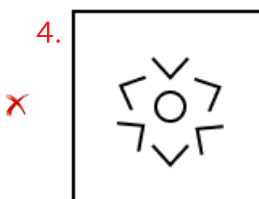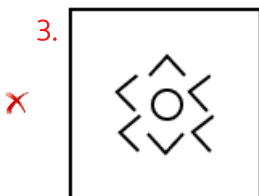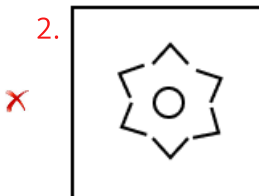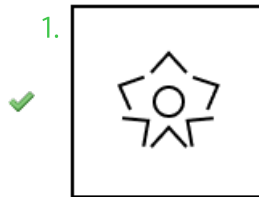
Ans ✗ 1. 7

✗ 2. 4

✗ 3. 6

✓ 4. 5

Q.65 In a certain code language, 'MIND' is coded as '3879' and 'NEAR' is coded as '4351'. What is the code for 'N' in that language?

Ans ✗ 1. 4

✓ 2. 3

✗ 3. 7

✗ 4. 5

Q.66 Identify the figure given in the options which when put in place of the question mark (?) will logically complete the series.

Ans

1. ✔

2. ✘

3. ✘

4. ✘
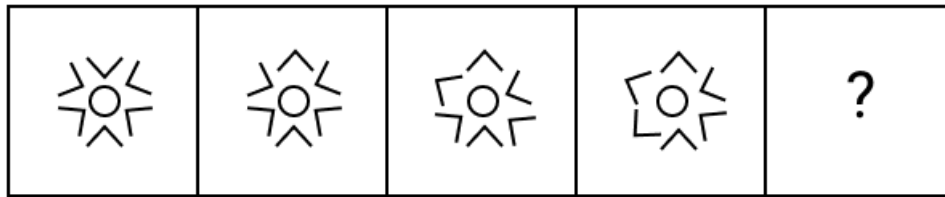
Q.67 Amar starts from point A and drives 14 km towards West. He then takes a right turn, drives 15 km, turns right and drives 19 km. He then takes a right turn and drives 18 km. He takes a final right turn, drives 5 km and stops at point P. How far (shortest distance) and towards which direction should he drive in order to reach point A again? (All turns are 90 degrees turns only unless specified.)

Ans ✘ 1. 1 km to the North

✔ 2. 3 km to the North

✘ 3. 2 km to the North

✘ 4. 4 km to the North

Q.68 Three of the following four letter-clusters are alike in a certain way and thus form a group. Which is the letter-cluster that does NOT belong to that group? (Note: The odd one out is not based on the number of consonants/vowels or their positions in the letter-cluster.)

Ans ✓ 1. TMKE

✗ 2. VOMH

✗ 3. GZXS

✗ 4. DWUP

Q.69 Select the letter-cluster from among the given options that can replace the question mark (?) in the following series.

CBE GFI KJM ONQ ?

Ans ✗ 1. SRV

✓ 2. SRU

✗ 3. STV

✗ 4. TRV

Q.70 In a certain code language,

A + B means 'A is the wife of B',

A − B means 'A is the son of B',

A x B means 'A is the husband of B' and

A ÷ B means 'A is the sister of B'.

Based on the above, how is P related to T if 'P x Q ÷ R − S + T'?

Ans ✗ 1. Mother's brother

✓ 2. Daughter's husband

✗ 3. Father's brother

✗ 4. Sister's husband

Section : **General Awareness**

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Q.71 According to the Census of India 2011, what was the percentage increase in female literacy in India during 2001-2011?

Ans ✔ 1. 22%

✘ 2. 14%

✘ 3. 9%

✘ 4. 5%

Q.72 In September 2024, a team of the National Institute of Mountaineering and Adventure Sports (NIMAS), under the Ministry of Defence, scaled an unnamed and uncharted peak in Arunachal Pradesh and named it after the 6th Dalai Lama, Tsangyang Gyatso. This expedition was led by whom among the following?

Ans ✘ 1. Major SS Shekhawat

✔ 2. Colonel Ranveer Singh Jamwal

✘ 3. Colonel Narendra Kumar

✘ 4. Colonel Ashok Abbey

Q.73 What is the name of India's first private launchpad and mission control centre located at Satish Dhawan Space Launch Centre from where 'Agnibaan – SorTeD' was launched in May 2024?

Ans ✘ 1. Dhara

✘ 2. Dhanush

✘ 3. Agnisthal

✔ 4. Agnikul

Q.74 What is the correct definition of 'head count ratio'?

Ans ✔ 1. The proportion of population below the poverty line

✘ 2. The proportion of the poorest people in the country

✘ 3. The proportion of the marginal poor in the economy

✘ 4. The number of the people below the poverty line

Q.75 The 2nd top layers of a rainforest, formed by the thick leaves of tall trees is known as:

Ans ✗ 1. understory layer

✓ 2. canopy layer

✗ 3. forest floor

✗ 4. emergent layer

Q.76 In December 2023, scientists from the International Advanced Research Centre for Powder Metallurgy & New Materials (ARCI), Hyderabad, developed an ecofriendly solar cell material by replacing lead in perovskite with which of the following metals?

Ans ✓ 1. Magnesium

✗ 2. Cerium

✗ 3. Lithium

✗ 4. Gallium

Q.77 Angkor Vat temple, which is dedicated to the god Vishnu, was built in the 12th century by _____, the king of Kambuja (Cambodia).

Ans ✗ 1. Yasovarman I

✗ 2. Indravarman I

✗ 3. Jayavarman II

✓ 4. Surya Varman II

Q.78 Who among the following social reformers of Bengal earnestly fought for widow remarriages and girl education?

Ans ✗ 1. Debendranath Tagore

✓ 2. Ishwarchandra Vidyasagar

✗ 3. Bankim Chandra Chattopadhyay

✗ 4. Nabinchandra Sen

Q.79 An Indian woman Social reformer, _____ is credited with the establishment of 'Bharat Stree Mandal' in 1910.

Ans ✗ 1. Savitri Bai Phule

✗ 2. Usha Mehta

✓ 3. Sarlabala Devi Chaudhrani

✗ 4. Sarojini Naidu

Q.80 Who among the following was the successor of Sultan Iltutmish in Delhi Sultanate?

Ans ✗ 1. Feroz Tughlaq

✗ 2. Alauddin Khilji

✓ 3. Raziya

✗ 4. Alptekin

Q.81 The approximate number of protein coding genes present on 23 pairs of chromosomes (human) is _____.

Ans ✗ 1. 40,000 to 45,000

✗ 2. 30,000 to 35,000

✓ 3. 20,000 to 25,000

✗ 4. 10,000 to 15,000

Q.82 How many sporting disciplines were conducted during the 37th National Games 2023?

Ans ✗ 1. 55

✗ 2. 23

✓ 3. 43

✗ 4. 30

Q.83 Name the blood disorder which reduces the production of hemoglobin.

Ans ✗ 1. Hemochromatosis

✗ 2. Myeloma

✓ 3. Thalassemia

✗ 4. Polycythemia Vera

Q.84 The Khilafat Movement (Group) was launched to protest against which of the following?

Ans ✗ 1. Rowlatt Act

✔ 2. Dissolution of the Ottoman Empire

✗ 3. Partition of Bengal

✗ 4. Jallianwala Bagh massacre

Q.85 Select the correct statement about refractive index from among the following.

Ans ✗ 1. Refractive index and reflection are the same phenomenon.

✔ 2. The ratio of the speed of light in vacuum to its speed in a specific medium is called the refractive index.

✗ 3. Refractive index is the sum of the angle of incidence and the angle of refraction.

✗ 4. The ratio of the speed of light in a specific medium to the speed of light in vacuum is called the refractive index.

Q.86 Which economic system has exclusive public ownership to the forces/means of production?

Ans ✗ 1. Capitalism

✗ 2. Totalitarianism

✔ 3. Socialism

✗ 4. Mixed economy

Q.87 How does the Reserve Bank of India (RBI) utilise the repo rate to control inflation?

Ans ✔ 1. By increasing the repo rate to make borrowing more expensive for banks

✗ 2. By decreasing the repo rate to encourage consumer spending

✗ 3. By offering subsidies on loans for small and medium enterprises

✗ 4. By increasing the supply of money in the economy

Q.88 Air Fest 2022, an annual show showcasing manoeuvres of planes and helicopters in the arsenal of the Indian Air Force (IAF), was organised at which of the following places in 2022?

Ans ✗ 1. Jodhpur

✔ 2. Nagpur

✗ 3. Pune

✗ 4. Patiala

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Q.89 Who among the following wrote the 'Ganesha's Sweet Tooth'?

Ans ✗ 1. Alka Joshi

✓ 2. Sanjay Patel and Emily Haynes

✗ 3. Kiran Desai

✗ 4. Amitav Ghosh

Q.90 Which of the following articles of the Indian Constitution facilitates people to move freely throughout the territory of India?

Ans ✗ 1. Article 19(1)(b)

✗ 2. Article 19(1)(a)

✗ 3. Article (19)(1)(c)

✓ 4. Article (19)(1)(d)

Q.91 Which of the following can be considered an example of an olfactory indicator?

Ans ✗ 1. Methyl orange

✓ 2. Onion

✗ 3. China rose

✗ 4. Turmeric

Q.92 Under which part of the Indian Constitution are the Fundamental Duties placed?

Ans ✗ 1. Part I

✗ 2. Part IV

✓ 3. Part IVA

✗ 4. Part III

Q.93 Which of the following commercially important trees is found in the Tropical Evergreen Forests?

Ans ✗ 1. Oak

✗ 2. Pine

✓ 3. Ebony

✗ 4. Teak

Q.94 Which of the following is the oldest landmass of India?

Ans   ✓ 1. The Peninsula Plateau

    ✗ 2. Indian Island

    ✗ 3. The Indian Desert

    ✗ 4. The Indus - Ganga plains

Q.95 Bolgatty Palace in Kochi, Kerala, India was built in the _____ architectural style.

Ans   ✗ 1. British

    ✗ 2. French

    ✗ 3. Portuguese

    ✓ 4. Dutch

Q.96 Which of the following experiences a unique 'chillai-kalan' winter season?

Ans   ✗ 1. Assam

    ✗ 2. Kerala

    ✗ 3. Tamil Nadu

    ✓ 4. Kashmir

Q.97 Which of the following is Disinvestment?

Ans   ✓ 1. Privatisation of the public sector undertakings by selling off the part of the equity of PSUs to the public is known as disinvestment.

    ✗ 2. Liberalisation of the public sector undertakings by selling off the part of the equity of PSUs to the public is known as disinvestment.

    ✗ 3. Liberalisation of the private sector undertakings by selling off the part of the equity of PSUs to the public is known as disinvestment.

    ✗ 4. Globalisation of the public sector undertakings by selling off the part of the equity of PSUs to the public is known as disinvestment.

Q.98 The SI unit of electric charge is:

Ans   ✓ 1. coulomb

    ✗ 2. ampere

    ✗ 3. ohm

    ✗ 4. hertz

Q.99 With which of the following is the Pradhan Mantri Jeevan Jyoti Bima Yojana related?

Ans ✗ 1. An insurance scheme offering vehicle insurance cover for accidents due to any reason.

✗ 2. An insurance scheme offering home insurance cover for accidents due to any reason.

✓ 3. An insurance scheme offering life insurance cover for death due to any reason.

✗ 4. An insurance scheme offering education for girls.

Q.100 In a federal country, disputes regarding federal matters are resolved by which of the following?

Ans ✗ 1. High Courts

✗ 2. Lower courts

✗ 3. Union Government

✓ 4. Supreme Court

Q.101 As on 30 September 2024, the Asian Development Bank (ADB) has how many members in total?

Ans ✗ 1. 31

✓ 2. 69

✗ 3. 49

✗ 4. 19

Q.102 Which Article of the Indian Constitution provides that 'It shall be the duty of the Union and the State Public Service Commissions to conduct examinations for appointments to the services of the Union and the services of the State, respectively'?

Ans ✗ 1. Article 319

✓ 2. Article 320

✗ 3. Article 318

✗ 4. Article 322

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Q.103 The successor organisation to the General Agreement on Trade and Tariff (GATT) was established in _____.

Ans ✗ 1. 1948

✗ 2. 1991

✓ 3. 1995

✗ 4. 1981

Q.104 NASA astronaut Sunita Williams arrived at the International Space Station in June 2024 with which other astronaut from NASA?

Ans ✗ 1. Christopher Williams

✗ 2. Bob Hines

✓ 3. Barry Wilmore

✗ 4. Frank Rubio

Q.105 Which of the following is NOT the function of Money?

Ans ✓ 1. Eradicate Poverty

✗ 2. Medium of exchange

✗ 3. Unit of account

✗ 4. Store of Value

Q.106 CH Vijayashankar, who was appointed as Governor of Meghalaya in July 2024, was the former minister of the state of _____.

Ans ✗ 1. Bihar

✓ 2. Karnataka

✗ 3. Rajasthan

✗ 4. Gujarat

Q.107 In September 2023, Kerala received recognition from the Indian Council of Medical Research (ICMR) for conducting TrueNat tests to detect infected cases of which of the following viruses?

Ans ✗ 1. Tilapia

✓ 2. Nipah

✗ 3. Chandipura

✗ 4. Zika

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Q.108   Match the following Rulers with their Titles correctly.

Set-l	Set-ll
a. Tarikh-i-Sindh	1. Nizamuddin Bakshi
b. Tarikh-i-Kashmir	2. Arif kandhari
c. Tabaqat-i-Akbari	3. Mirza Masoom
d. Tarikh-i-Akbari	4. Mirza Haider

Ans   ✔ 1. a - 3; b - 4; c - 1; d - 2

✘ 2. a - 2; b - 3; c - 4; d - 1

✘ 3. a - 4; b - 3; c - 2; d - 1

✘ 4. a -3; b - 4; c - 2; d - 1

Q.109 What provision of the Indian Constitution guarantees the independence of the judiciary?

Ans   ✘ 1. Directive Principles of State Policy

✘ 2. Preamble

✔ 3. Judicial Review

✘ 4. Fundamental Rights

Q.110 Which of the following states has the highest literacy rate among females in India according to Census 2011?

Ans   ✘ 1. Himachal Pradesh

✘ 2. Mizoram

✔ 3. Kerala

✘ 4. Goa

Q.111 Which of the following types of farming is largely confined to the regions having annual rainfall less than 75 cm in India?

Ans   ✘ 1. Plantation Agriculture

✔ 2. Dryland Farming

✘ 3. Wetland Farming

✘ 4. Moist Farming

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Q.112 The mother of Jahangir was a Kachhwaha princess, a daughter of Rajput ruler of _____.

Ans   ✗ 1. Mewar

     ✓ 2. Amber

     ✗ 3. Berar

     ✗ 4. Marwar

Q.113 Select the INCORRECT option with respect to joint military exercises of India with other nations.

Ans   ✗ 1. USA - Tiger Triumph

     ✗ 2. UK - Ajeya Warrior

     ✓ 3. UAE - Dharma Guardian

     ✗ 4. Uzbekistan - Dustlik

Q.114 Subject to the provisions of Article ___, there shall be a Public Service Commission for the Union and a Public Service Commission for each State.

Ans   ✗ 1. 318

     ✗ 2. 317

     ✗ 3. 316

     ✓ 4. 315

Q.115 Which of the following states is known for Bihu music?

Ans   ✗ 1. Tamil Nadu

     ✗ 2. Rajasthan

     ✓ 3. Assam

     ✗ 4. Punjab

Q.116 The Government of India launched the Smart Cities Mission on:

Ans   ✓ 1. 25-06-2015

     ✗ 2. 25-06-2016

     ✗ 3. 26-06-2014

     ✗ 4. 26-06-2017

Q.117 Which of the following is NOT a Gharana of classical Hindustani music?

Ans ✗ 1. Agra Gharana

✗ 2. Kirana Gharana

✗ 3. Gwalior Gharana

✓ 4. Thanjavur Gharana

Q.118 Who among the following was appointed as the new Executive Director of the Reserve Bank of India with effect from 1 July 2024?

Ans ✗ 1. SC Murmu

✓ 2. Charulatha S Kar

✗ 3. Rajiv Ranjan

✗ 4. Aviral Jain

Q.119 Which of the following cases established the Right to Privacy as a fundamental right in the Constitution of India?

Ans ✗ 1. Golaknath vs State Of Punjab

✗ 2. SR Bommai vs Union of India

✓ 3. Justice KS Puttaswamy (Retd) vs the Union of India

✗ 4. Minerva Mills Ltd. vs Union Of India

Q.120 Which of the following hosted the 'Arogya Manthan' event in 2023?

Ans ✗ 1. Bharat Mandapam, New Delhi

✗ 2. Taj Hotel, Mumbai

✗ 3. Pragati Maidan, New Delhi

✓ 4. Vigyan Bhawan, New Delhi

2024/12/14-13:28:53

Section : Arithmetic

Q.1 Find the remainder when 49 × 51 × 54 × 37 × 123 is divided by 24.

Ans ✗ 1. 10

✗ 2. 4

✓ 3. 6

✗ 4. 8

Q.2 *The difference between the smallest and the largest fractions among* $\frac{6}{7}, \frac{4}{8}, \frac{32}{39}, \frac{25}{27}$ *is:*

Ans ✗ 1. $\frac{23}{55}$

✗ 2. $\frac{23}{56}$

✗ 3. $\frac{23}{58}$

✓ 4. $\frac{23}{54}$

Q.3 Express the following into a vulgar fraction.

$0.00\overline{1} + 0.0\overline{1} + 0.\overline{1}$

Ans ✗ 1. $\frac{1211}{9999}$

✗ 2. $\frac{1212}{9900}$

✓ 3. $\frac{1211}{9900}$

✗ 4. $\frac{1211}{9990}$

Q.4 The smallest 1-digit number to be added to the 6-digit number 459039 so that it is completely divisible by 11 is:

Ans ✗ 1. 5

✗ 2. 6

✗ 3. 3

✓ 4. 2

Q.5 During sale, Raghav bought a notebook marked for ₹12 at 25% discount and a pen marked for ₹75 at 20% discount. How much (in ₹) did he save due to sale?
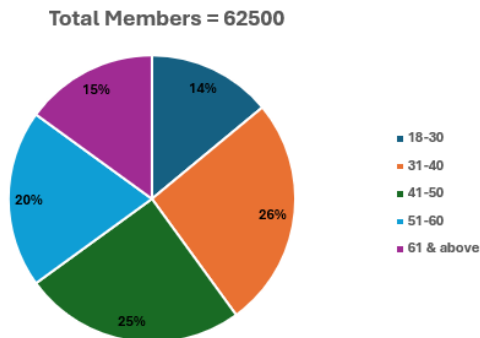
Ans ✗ 1. 19

✗ 2. 17

✓ 3. 18

✗ 4. 20

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Q.6 If x varies inversely as y^3 - 1 and is equal to 8 when y = 3, find x when y = 6.

Ans ✓ 1. $\dfrac{208}{215}$

✗ 2. $\dfrac{210}{215}$

✗ 3. $\dfrac{208}{216}$

✗ 4. $\dfrac{209}{216}$

Q.7 Study the given graph and answer the question that follows.

The given pie chart shows the number of members in Hyderabad Gymkhana Club of various age groups.

Total Members = 62500

If 24% of the total members in the age group 18-30 are aged 21 years or below, find the members in the age group 18-21.

Ans ✓ 1. 2100

✗ 2. 2300

✗ 3. 1980

✗ 4. 2250

Q.8 A shopkeeper sells an item for ₹855.4 after giving two successive discounts of 90% and 75% on its marked price. Had he not given any discount, he would have earned a profit of 40%. What is the cost price (in ₹) of the item?

Ans ✗ 1. 24471

✗ 2. 24427

✗ 3. 24400

✓ 4. 24440

Q.9 The curved surface area of a hemispherical bowl is 1232 cm². Find the volume (in cm³) of the bowl. (Use π = $\dfrac{22}{7}$ and up to 2 decimal places)

Ans ✗ 1. 5049.22

✗ 2. 4049.11

✗ 3. 5540.33

✓ 4. 5749.33

Q.10 *The difference between the smallest and the largest fractions among*
$\frac{4}{9}, \frac{3}{7}, \frac{31}{37}, \frac{12}{20}$ *is:*

Ans ✗ 1. $\frac{106}{261}$

✔ 2. $\frac{106}{259}$

✗ 3. $\frac{106}{255}$

✗ 4. $\frac{106}{258}$

Q.11 If the volume of cube is 29791 m³, then find the total surface area of cube in m².

Ans ✗ 1. 5794

✗ 2. 5733

✗ 3. 5784

✔ 4. 5766

Q.12 The average of eight numbers is 20. The average of five of these numbers is 13. The average of the remaining three numbers is

Ans ✗ 1. 30.67

✗ 2. 32.67

✗ 3. 33.67

✔ 4. 31.67

Q.13 Three partners invested in a business in the ratio 8:4:6. They invested their capitals for 10 months, 4 months and 12 months, respectively. What was the ratio of their profits?

Ans ✗ 1. 8:2:9

✔ 2. 10:2:9

✗ 3. 12:2:9

✗ 4. 11:2:9

Q.14 $\frac{(a^5 \times b^5 \times c^8)}{(a^8 \times b^5 \times c^1)}$ in simplified form is:

Ans ✔ 1. $(a^{-3}) \times (b^0) \times (c^7)$

✗ 2. $(a^3) \times (b^{-1}) \times (c^{-9})$

✗ 3. $(a^{-6}) \times (b^{-6}) \times (c^{-6})$

✗ 4. $(a^{-10}) \times (b^{-2}) \times (c^0)$

Q.15 400 guavas were bought at ₹1420 per hundred and were sold at a profit of ₹820. Find the selling price (in ₹) per dozen of guavas.

Ans ✗ 1. 185

✗ 2. 210

✗ 3. 205

✔ 4. 195

Q.16 If 25% of a number is added to 66, then the result is the same number. 80% of the same number is:

Ans ✔ 1. 70.4

✗ 2. 40.4

✗ 3. 100.4

✗ 4. 90.4

Q.17 Trupti and Suhani invest in a business in the ratio 2 : 6. If total profit is Rs. 2480, then what is difference between the profit (in Rs.) of Trupti and Suhani?

Ans   ✔ 1. 1240

✘ 2. 1340

✘ 3. 1390

✘ 4. 1190

Q.18 Manav's average earning per month in the first three months of a year was ₹41944. In April, his earning was 50% more than the average earning in the first three months. If his average earning per month for the whole year is ₹63849, then what will be Manav's average earning (in ₹) per month from May to December?

Ans   ✘ 1. 72182

✘ 2. 72175

✘ 3. 72179

✔ 4. 72180

Q.19 Lalit's average earning per month in the first three months of a year was ₹37096. In April, his earning was 50% more than the average earning in the first three months. If his average earning per month for the whole year is ₹87305, then what will be Lalit's average earning (in ₹) per month from May to December?

Ans   ✔ 1. 110091

✘ 2. 110089

✘ 3. 110094

✘ 4. 110095

Q.20 By selling an article at $\frac{4}{10}$ of its actual selling price, Nirbhay incurs a loss of 17%. If he sells it at 88% of its actual selling price, then the profit percentage is:

Ans   ✘ 1. 81.3%

✔ 2. 82.6%

✘ 3. 84.4%

✘ 4. 83.4%

Q.21 Utsavi invested a sum of ₹2000 at 15% per annum compound interest, componded annually. If she received an amount of ₹2645 after n years, the value of n is:

Ans   ✘ 1. 3

✔ 2. 2

✘ 3. 2.5

✘ 4. 1.6

Q.22 A man walks to a viewpoint and returns to the starting point by his car maintaining constant speed and thus takes a total time of 6 hours 15 minutes. He would have gained 2 hours by driving both ways. How long would it have taken for him to walk both ways with same walking speed?

Ans   ✔ 1. 8 hours 15 minutes

✘ 2. 8 hours 45 minutes

✘ 3. 9 hours 30 minutes

✘ 4. 7 hours 15 minutes

Q.23 The population of a village was 130000. It increased by 15% in the first year and increased by 20% in the second year. Its population after two years is _____.

Ans
✗ 1. 156000
✔ 2. 179400
✗ 3. 149500
✗ 4. 175500

Q.24

Find the value of $76^{-15} \div 76^4 \times 76^{-5}$

Ans
✔ 1. 76^{-24}
✗ 2. 76^{-31}
✗ 3. 76^{-22}
✗ 4. 76^{-20}

Q.25 If the average of the three consecutive even numbers is 42, find the sum of the smallest and largest of these numbers.

Ans
✗ 1. 82
✗ 2. 86
✔ 3. 84
✗ 4. 40

Q.26 A sum, when invested at 20% simple interest per annum, amounts to ₹2400 after 3 years. What is the simple interest (in ₹) on the same sum at the same rate in 1 year?

Ans
✔ 1. 300
✗ 2. 150
✗ 3. 1200
✗ 4. 600

Q.27 Which of the following fractions is the largest?

$$\frac{5}{9}, \frac{6}{21}, \frac{15}{73}, \frac{18}{82}$$

Ans
✔ 1. $\frac{5}{9}$
✗ 2. $\frac{18}{82}$
✗ 3. $\frac{15}{73}$
✗ 4. $\frac{6}{21}$

Q.28 Simplify the following:
$$[\{(-0.4) + (4.6)^2 + (2.3)^2\} \div 5] \times 100$$

Ans
✗ 1. 517
✗ 2. 571
✗ 3. 512
✔ 4. 521

Q.29 Suraj covers 598 km in a boat in 39 hours against the stream and he takes 12 hours with the stream then find the speed of the stream?

Ans ✗ 1. 16.23 km/h

✗ 2. 10.58 km/h

✗ 3. 15.63 km/h

✔ 4. 17.25 km/h

Q.30 Four litres of paint was required to paint the surface of a solid sphere. If 4 identical pieces were made of this solid sphere, then how many litres of paint would be required to paint all the surfaces of these 4 pieces?

Ans ✗ 1. 10

✗ 2. 7

✗ 3. 6

✔ 4. 8

Q.31 A 976 m long train crosses a man walking at a speed of 3.5 km/h in the opposite direction in 18 seconds. What is the speed (in km/h) of the train?

Ans ✗ 1. 189.9

✗ 2. 192.6

✗ 3. 188.7

✔ 4. 191.6

Q.32 Given that $69^{0.07} = x$, $69^{0.67} = y$ and $x^z = y^7$, then the value of z is close to:

Ans ✔ 1. 67

✗ 2. 69.08

✗ 3. 67.51

✗ 4. 66.87

Q.33 What time (in seconds) is required for a 953 m long train to cross a 532 m long tunnel, if the train travels at a speed of 54 km/h?

Ans ✗ 1. 106

✗ 2. 96

✗ 3. 107

✔ 4. 99

Q.34 Anushka invested a sum of ₹6400 at 5% per annum compound interest, componded annually. If she received an amount of ₹7056 after n years, the value of n is:

Ans ✗ 1. 1.20000004768372

✗ 2. 2.40000009536743

✗ 3. 3

✔ 4. 2

Q.35 The average of 7 numbers is 43. If each number is decreased by 3, what will the new average be?

Ans ✗ 1. 37

✔ 2. 40

✗ 3. 7

✗ 4. 43

Section : **General Intelligence and Reasoning**

Q.36 Based on the English alphabetical order, three of the following four letter-clusters are alike in a certain way and thus form a group. Which letter-cluster DOES NOT belong to that group?

(Note: The odd one out is not based on the number of consonants/vowels or their position in the letter-cluster.)

Ans ✗ 1. KJH

✗ 2. MLJ

✗ 3. HGE

✔ 4. GGD

Q.37 In a certain code language, 'APES' is coded as '6819' and 'PAGE' is coded as '6928'. What is the code for 'G' in that language?

Ans ✗ 1. 6

✗ 2. 8

✗ 3. 9

✔ 4. 2

Q.38 If 'A' stands for '÷', 'B' stands for '×', 'C' stands for '+' and 'D' stands for '−', what will be come in place of question mark '?' in the following equation?
28 C 22 D 32 B 2 A 8 = ?

Ans ✔ 1. 42

✗ 2. 43

✗ 3. 44

✗ 4. 40

Q.39 Tushar starts from Point A and drives 11 km towards the South. He then takes a right turn, drives 8 km, turns right and drives 14 km. He then takes a right turn and drives 12 km. He takes a final right turn, drives 3 km and stops at Point P. How far (shortest distance) and towards which direction should he drive in order to reach Point A again? (All turns are 90 degrees turns only unless specified)

Ans ✗ 1. 4 km to the east

✗ 2. 3 km to the west

✔ 3. 4 km to the west

✗ 4. 3 km to the east

Q.40 Seven people, D, E, F, G, H, I and T, are sitting around a circular table facing the centre of the table. Only two people sit between T and D when counted from the right of T. Only three people sit between H and F when counted from the right of F. D sits to the immediate right of F. I sits to the immediate left of G. Who sits second to the right of E?

Ans ✔ 1. D

✗ 2. G

✗ 3. I

✗ 4. T

Q.41 This question is based on the five, three-digit numbers given below.

(Left) 538 745 317 153 276 (Right)

(Example- 697 – First digit = 6, second digit = 9 and third digit = 7)
(NOTE: All operations to be done from left to right.)

What will be the resultant if the third digit of the highest number is added to the second digit of the lowest number?

Ans ✔ 1. 10

✘ 2. 9

✘ 3. 8

✘ 4. 11

Q.42 G is the mother of H. H is the mother of J. J is the brother of K. K is the son of L. How is G related to L?

Ans ✔ 1. Wife's mother

✘ 2. Wife's brother

✘ 3. Husband's mother

✘ 4. Wife's father

Q.43 VPMG is related to NHEY in a certain way based on the English alphabetical order. In the same way, PJGA is related to HBYS. To which of the following options is RLIC related, following the same logic?

Ans ✘ 1. JAUD

✘ 2. JDUA

✘ 3. JADU

✔ 4. JDAU

Q.44 Seven boxes U, V, W, X, P, Q and R are kept one over the other but not necessarily in the same order.
Only two boxes are kept below X. Only one box is kept above Q. Only one box is kept between Q and U. V is kept immediately above P. R is kept at some place below W.
How many boxes are kept between W and V?

Ans ✘ 1. Three

✔ 2. Four

✘ 3. Two

✘ 4. One

Q.45 If 1 is added to each odd digit and 1 is subtracted from each even digit in the number 864172, what will be the difference between the first and last digits in the number thus formed?

Ans ✘ 1. 5

✘ 2. 7

✘ 3. 4

✔ 4. 6

Q.46 Two sets of numbers are given below. In each set of numbers, certain mathematical operation(s) on the first number results in the second number. Similarly, certain mathematical operation(s) on the second number results in the third number and so on. Which of the given options follows the same set of operations as in the given sets?

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 – Operations on 13 such as adding / subtracting /multiplying to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

8 - 10 - 20 - 22 ; 5 - 7 - 14 - 16

Ans ✔ 1. 13 - 15 - 30 - 32

✘ 2. 9 - 11 - 22 - 26

✘ 3. 2 - 4 - 6 - 10

✘ 4. 14 - 16 - 32 - 38

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Q.47 Select the term from among the given options that can replace the question mark (?) in the following series.

QNF -3 OLI -6 ? KHO -12 IFR -15

Ans ✗ 1. MJL -11

✗ 2. MJL -8

✗ 3. MJL -10

✓ 4. MJL -9

Q.48 Select the pair that follows the same pattern as that followed by the two pairs given below. Both pairs follow the same pattern.

SVG : OZC

KDY : GHU

Ans ✓ 1. CLQ : YPM

✗ 2. HMP : DRL

✗ 3. PCX : LHT

✗ 4. ZWH : VBD

Q.49 Select the number from among the given options that can replace the question mark (?) in the following series.

3 23 ? 1143 8003

Ans ✗ 1. 179

✗ 2. 166

✗ 3. 174

✓ 4. 163

Q.50 Def starts from Point A and drives 16 km towards north. He then takes a right turn, drives 7 km, turns right and drives 11 km. He then takes a left turn, drives 21 km, turns right and drives 10 km. He then takes a right turn and drives 32 km. He takes a final right turn, drives 5 km and stops at Point P. How far (the shortest distance) and towards which direction should he drive in order to reach Point A again? (All turns are 90° turns only, unless specified.)

Ans ✗ 1. 2 km towards west

✗ 2. 6 km towards north

✓ 3. 4 km towards east

✗ 4. 8 km towards south

Q.51 Refer to the following letter, number, symbol series and answer the question that follows.

(Left) R % C & E 2 K 4 # 5 S * 7 D Y @ 3 6 G & T (Right)

If all the numbers are dropped from the series, which of the following will be sixth from the right?

Ans ✓ 1. D

✗ 2. *

✗ 3. S

✗ 4. Y

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Q.52   Select the letter-cluster from among the given options that can replace the question mark (?) in the following series.

HFD KIG NLJ QOM ?

Ans   ✗ 1. STP

       ✗ 2. STQ

       ✔ 3. TRP

       ✗ 4. TSQ

Q.53   A, B, C, D, E, F and G are sitting around a circular table facing the centre. A sits third to the left of E. B sits second to the left of F. Only E sits between D and B. C is not an immediate neighbour of A. How many people sit between D and F, when counted from the left of F?

Ans   ✗ 1. 4

       ✗ 2. 1

       ✔ 3. 3

       ✗ 4. 2

Q.54   Four of the following five figures are alike in a certain way and thus form a group. Which figure DOES NOT belong to that group?


(A)   (B)   (C)   (D)   (E)
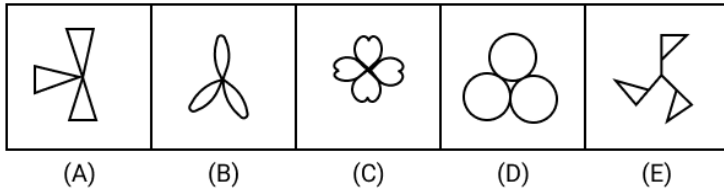
Ans   ✗ 1. A

       ✗ 2. D

       ✔ 3. C

       ✗ 4. B

Q.55   Which of the following letter-clusters should replace # and % so that the pattern and relationship followed between the letter-cluster pair on the left side of :: is the same as that on the right side of :: ?

: HLR :: VZF : %

Ans   ✗ 1. # = DHN; % = IDJ

       ✗ 2. # = EHN; % = ZDJ

       ✗ 3. # = DHN; % = ZDI

       ✔ 4. # = DHN; % = ZDJ

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Q.56 Identify the figure given in the options which when put in place of the question mark (?) will logically complete the series.
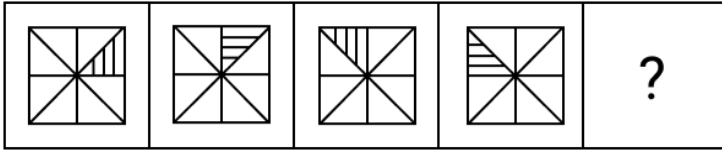
Ans

1.
✗

2.
✔

3.
✗

4.
✗

Q.57 In a certain code language, 'POST' is coded as '8579' and 'SEND' is coded as '4351'.

What is the code for 'S' in that language?

Ans ✗ 1. 3

✗ 2. 4

✗ 3. 7

✔ 4. 5

Q.58 This question is based on the five, three-digit numbers given below.

(Left) 365 742 234 567 835 (Right)

(Example: 697 – First digit = 6, second digit = 9 and third digit = 7)
(NOTE: All operations to be done from left to right.)

What will be the resultant if second digit of the highest number is added to the first digit of lowest number?

Ans ✔ 1. 5

✗ 2. 6

✗ 3. 11

✗ 4. 8

Q.59 **This question is based on the five, three-digit numbers given below.**

(Left) 564 245 782 432 861 (Right)

(Example- 697 – First digit = 6, second digit = 9 and third digit = 7)
(NOTE: All operations to be done from left to right.)

If all the numbers are arranged in the descending order, the position of how many numbers will remain unchanged?

Ans ✔ 1. 1

✘ 2. 4

✘ 3. 2

✘ 4. 3

Q.60 In a certain code language, 'time flies fast' is coded as 'mk tu jb' and 'fast or slow' is coded as 'tb mk ab'. How is 'fast' coded in the given language?

Ans ✔ 1. mk

✘ 2. ab

✘ 3. tu

✘ 4. jb

Q.61 Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusion(s) logically follow(s) from the statements.

Statements:
All pins are lions.
Some lions are rats.
Some rats are hens.

Conclusions:
(I) Some hens are pins.
(II) Some rats are pins.

Ans ✘ 1. Only conclusion (II) follows.

✘ 2. Both conclusions (I) and (II) follow.

✘ 3. Only conclusion (I) follows.

✔ 4. Neither conclusion (I) nor (II) follows.

Q.62 A, B, C, D, E and F live on six different floors of the same building. The lowermost floor in the building is numbered 1, the floor above it, number 2 and so on till the topmost floor is numbered 6.
D lives on a floor which is a prime number. The product of floors on which D and A live is 8. E lives immediately above B. The sum of floors on which A and C lives is 7. How many people live between D and E?

Ans ✘ 1. 1

✘ 2. 2

✔ 3. 4

✘ 4. 3

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Q.63 Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.

M
|
R G J K L P |
|
N

Ans ✗ 1. ꟼ⅃KЯG⌉

✗ 2. ꟼK⅃⅃GЯ

✗ 3. K⅃ꟼ⅃GЯ

✓ 4. ꟼ⅃⅃K⅃GЯ

Q.64 S is the wife of D. D is the father of F. F is the mother of G. G is the brother of H. How is S related to H?

Ans ✓ 1. Mother's Mother

✗ 2. Father's Sister

✗ 3. Mother's Sister

✗ 4. Father's Mother

Q.65 Six people, named W, X, Y, Z, T and U, each are of different ages. The age of X is 40. The age of T is two times the age of Z. The age of W is two times the age of U. The age of Z is one-fifth the age of W. The age of X is two times the age of T. If the age of U is one-third the age of Y, what is the age of Y?

Ans ✗ 1. 52

✗ 2. 76

✗ 3. 85

✓ 4. 75

Q.66 Three of the following four letter-clusters are alike in a certain way and thus form a group. Which is the letter-cluster that does NOT belong to that group?
(Note: The odd one out is not based on the number of consonants/vowels or their positions in the letter-cluster.)

Ans ✗ 1. UDLQ

✓ 2. JSAE

✗ 3. HQYD

✗ 4. ENVA

Q.67 Each of the digits in the number 7381465 is arranged in ascending order from left to right. The position(s) of how many digits will remain unchanged as compared to that in the original number?

Ans ✓ 1. ONE

✗ 2. NONE

✗ 3. THREE

✗ 4. TWO

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Q.68 Based on the English alphabetical order, three of the following four letter cluster pairs are alike in a certain way and thus form a group. Which is the one that DOES NOT belong to that group?

Ans
- ✗ 1. OJ : MH
- ✗ 2. GB : EZ
- ✗ 3. TO : RM
- ✓ 4. AU : YT

Q.69 10 is related to 35 following a certain logic. Following the same logic, 7 is related to 20. To which of the following is 25 related, following the same logic?
(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding / subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

Ans
- ✗ 1. 100
- ✗ 2. 140
- ✗ 3. 120
- ✓ 4. 110

Q.70 Seven boxes U, V, W, X, P, Q and R are kept one over the other but not necessarily in the same order. Only three boxes are kept below V. Only two boxes are kept between V and U. Only P is kept above X. R is kept at some place below Q and at some place above W.
Which box is kept at the second position from the bottom?

Ans
- ✗ 1. V
- ✗ 2. R
- ✓ 3. W
- ✗ 4. U

Section : General Awareness

Q.71 Which of the following is a secondary function of the commercial banks?

Ans
- ✓ 1. Performing agency functions
- ✗ 2. Opening of current account deposits
- ✗ 3. Advancing loans
- ✗ 4. Opening fixed deposits

Q.72 Which of the following is the formula for the consumption function?

Ans
- ✗ 1. $C = \overline{C} - cYD$
- ✗ 2. $C = \overline{C} / cYD$
- ✗ 3. $C = \overline{C} \boxtimes cYD$
- ✓ 4. $C = \overline{C} + cYD$

Q.73 The Wildlife Protection Act, which provides the main legal framework for conservation and protection of wildlife in India, was enacted in the year:

Ans
- ✗ 1. 1974
- ✗ 2. 1986
- ✓ 3. 1972
- ✗ 4. 1981

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Q.74 Which of the following is NOT a tributary of the Godavari river?

Ans

✗ 1. Pravara

✓ 2. Kabini

✗ 3. Purna

✗ 4. Manjra

Q.75 On which river system is the National Waterway 1, developed by the Indian government, built?

Ans

✗ 1. Kottapurma-Kollam, Udyogamandal and Champakkara canals

✗ 2. Stretches of Godavari and Krishna rivers

✗ 3. Brahmaputra river between Sadiya and Dhubri

✓ 4. Ganges-Bhagirathi-Hooghly river system(from Haldia to Allahabad)

Q.76 In October 2023, India began producing 'reference' fuel, joining a select league of nations. What is the octane number of reference fuel?

Ans

✗ 1. 87

✗ 2. 67

✗ 3. 77

✓ 4. 97

Q.77 In which of the following years was 'A Brush with Life: An Autobiography' written?

Ans

✗ 1. 1908

✗ 2. 1856

✗ 3. 2000

✓ 4. 1997

Q.78 Chromosome number (2n) of maize is _____.

Ans

✓ 1. 20

✗ 2. 10

✗ 3. 15

✗ 4. 18

Q.79 Which of the following is a direct impact of rural infrastructure development on the agricultural sector?

Ans

✗ 1. Increased urban migration due to improved rural infrastructure

✓ 2. Enhanced agricultural productivity through better irrigation, storage and transport facilities

✗ 3. Rural infrastructure development has no significant impact on agriculture

✗ 4. Decrease in agricultural productivity due to the diversion of resources

Q.80 Who among the following was the chairman of the Constituent Assembly of India?

Ans

✓ 1. Dr. Rajendra Prasad

✗ 2. K M Munshi

✗ 3. Dr. B R Ambedkar

✗ 4. Gopal Das Ambaidas Desai

Q.81 Who among the following emphasised and propagated that the 'Vedanta was the religion of all and NOT of the Hindus alone'?

Ans ✗ 1. Swami Dayanand Saraswati

✗ 2. Mahadev Govind Ranade

✗ 3. Ishwar Chandra Vidyasagar

✓ 4. Swami Vivekananda

Q.82 From the given options, which Indian state has a higher literacy rate than the other three states as per the census of 2011?

Ans ✗ 1. Tripura

✗ 2. Himachal Pradesh

✓ 3. Kerala

✗ 4. Mizoram

Q.83 In which of the following types of vegetation would we find species like ebony, mahogany, and rosewood?

Ans ✗ 1. Mangrove forests

✗ 2. Montane forests

✓ 3. Tropical evergreen forests

✗ 4. Tropical deciduous forests

Q.84 Who among the following returned the honourary knighthood title to mark the protest against Jallianwala Bagh incident?

Ans ✗ 1. Mahatma Gandhi

✓ 2. Rabindra Nath Tagore

✗ 3. Dadabhai Naoroji

✗ 4. Jawaharlal Nehru

Q.85 The general debate of the 79th session of the United Nations General Assembly started on which date?

Ans ✗ 1. 12 September 2024

✗ 2. 28 September 2024

✓ 3. 24 September 2024

✗ 4. 2 September 2024

Q.86 Which Indian cricket player became the Player of the Series in the two test matches cricket series against Bangladesh, played in September-October 2024?

Ans ✓ 1. Ravichandran Ashwin

✗ 2. Rishabh Pant

✗ 3. Jasprit Bumrah

✗ 4. Yashasvi Jaiswal

Q.87 Which law states that if a body is at rest or moving at a constant speed in a straight line, it will remain at rest or keep moving in a straight line at constant speed unless it is acted upon by a force?

Ans ✓ 1. Newton's first law

✗ 2. Newton's third law

✗ 3. Newton's second law

✗ 4. Dalton's law

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Q.88 Which Article of the Indian Constitution deals with the composition of the Rajya Sabha?

Ans ✗ 1. Article 95

✔ 2. Article 80

✗ 3. Article 85

✗ 4. Article 90

Q.89 The portion of agricultural produce, which is sold in the market by farmers, is called _____.

Ans ✗ 1. gross surplus

✗ 2. wage surplus

✔ 3. marketed surplus

✗ 4. product surplus

Q.90 The provision of 'Prohibition of Employment of Children in Hazardous Jobs' is reflected in which of the following Fundamental Rights of the Indian Constitution?

Ans ✗ 1. Right to Freedom

✔ 2. Right against Exploitation

✗ 3. Right to Equality

✗ 4. Right to Constitutional Remedies

Q.91 In which of the following years were Union Territories (UT) introduced in India?

Ans ✗ 1. 1950

✗ 2. 1952

✗ 3. 1960

✔ 4. 1956

Q.92 Which of the following periods succeeds the Palaeolithic period?

Ans ✗ 1. Iron Age

✔ 2. Mesolithic

✗ 3. Neolithic

✗ 4. Chalcolithic

Q.93 The cytoplasmic strands that connect one cell to the other are known as _____.

Ans ✔ 1. Plasmodesmata

✗ 2. Spindle Fibre

✗ 3. Endoplasmic Reticulum

✗ 4. Centriole

Q.94 Who among the following is related to 'khayal' in classical Hindustani music?

Ans ✗ 1. Ziauddin Barani

✔ 2. Amir Khusrau

✗ 3. Abu'l Hasan al Hujwiri

✗ 4. Amir Hasan Sijzi

Q.95 What is the main objective of Financial Inclusion?

Ans ✗ 1. To add every person in the country as part of the National Mission for Financial Inclusion.

✗ 2. To extend digital banking services to the population of the country.

✗ 3. To focus on opening of an account in a Nationalised Bank.

✔ 4. To extend financial services at reasonable cost to the large hitherto unserved population of the country.

Q.96 How many sports persons received the Arjuna Awards for outstanding performances in Sports and Games 2023?

Ans
✗ 1. 21

✗ 2. 31

✗ 3. 34

✓ 4. 26

Q.97 Which of the following statements is INCORRECT with respect to the India's Tax Reforms Committee (TRC), 1991?

Ans
✗ 1. The TRC suggested a moderate flat tax rate on long term capital gains after due indexation for inflation.

✓ 2. The committee suggested a phased reduction of the corporate tax to 10% and continuation of surcharge on corporate tax.

✗ 3. The committee recommended the abolition of tax concessions, rebates and allowances, under various incentives for saving schemes.

✗ 4. The TRC suggested aggregation of minor's income, other than wage income, with the income of the parents.

Q.98 Which of the following is commonly known as the 'Four D's disease' caused by severe deficiency of Vitamin B3?

Ans
✗ 1. Beri Beri

✓ 2. Pellagra

✗ 3. Hypocalcemia

✗ 4. Goitre

Q.99 Poisson's equation, which is often used to describe the elastic properties of a material, is represented by which Greek letter?

Ans
✗ 1. Tau

✗ 2. Epsilon

✗ 3. Kappa

✓ 4. Nu

Q.100 Which of the following battles was fought in the year 1191 AD?

Ans
✗ 1. The Battle of Kasahrada

✗ 2. The First Battle of Panipat

✓ 3. The First Battle of Tarain

✗ 4. The Battle of Chandawar

Q.101 Indian political activist and advocate for women's rights, _____, had unfurled the first version of the Indian national flag at the International Socialist Congress held at Stuttgart, Germany.

Ans
✗ 1. Sarojini Naidu

✗ 2. Sucheta Kripalani

✗ 3. Annie Besant

✓ 4. Bhikaji Cama

Q.102 What is the nature of the 'PM Fasal Bima Yojna (PMFBY)' for the participating States/UTs and farmers?

Ans
✓ 1. Mandatory for States/UTs and voluntary for farmers

✗ 2. Voluntary for States/UTs and mandatory for farmers

✗ 3. Voluntary for both States/UTs and also for farmers

✗ 4. Mandatory for both States/UTs and also for farmers

Q.103 What is the name of the seventh Anti-Submarine Warfare Shallow Water Craft (ASW SWC) launched by the Indian Navy in October 2024?

Ans
✅ 1. Abhay
❌ 2. Arjun
❌ 3. Akash
❌ 4. Ajay

Q.104 Who was considered as the viceroy of Muhammad Ghori and overall commander of the army in India?

Ans
❌ 1. Taj al-Din Yildiz
❌ 2. Bakhtiyar Khalji
✅ 3. Qutbuddin Aibak
❌ 4. Nasiruddin Qabacha

Q.105 Who among the following was the last Pallava ruler?

Ans
❌ 1. Nariptunga
❌ 2. Adityavarman
❌ 3. Nandivarman
✅ 4. Aparajitavarman

Q.106 Which state government launched the 'Yuva Nidhi Scheme' for providing financial aid to unemployed youth?

Ans
❌ 1. Uttar Pradesh
❌ 2. Kerala
❌ 3. Madhya Pradesh
✅ 4. Karnataka

Q.107 Which of the following pairs is INCORRECT with reference to dams and their related states?

Ans
❌ 1. Koyna – Maharashtra
✅ 2. Indira Sagar – Rajasthan
❌ 3. Pong – Himachal Pradesh
❌ 4. Karjan – Gujarat

Q.108 Which one of following countries is NOT included in the Citizenship (Amendment) Act, 2019?

Ans
❌ 1. Afghanistan
✅ 2. Bhutan
❌ 3. Bangladesh
❌ 4. Pakistan

Q.109 In which of the following years did Kanshiram Found Bahujan Samaj Party?

Ans
❌ 1. 1980
❌ 2. 1986
❌ 3. 1990
✅ 4. 1984

Q.110 According to Census 2011, which northeastern state has the highest literacy rate?

Ans
❌ 1. Meghalaya
❌ 2. Tripura
✅ 3. Mizoram
❌ 4. Sikkim

Q.111 Director General Rakesh Pal, AVSM, PTM, TM is the _____ Director General of Indian Coast Guard.

Ans ✗ 1. 22nd

    ✓ 2. 25th

    ✗ 3. 20th

    ✗ 4. 27th

Q.112 MATSYA 6000, a part of India's Samudrayaan Project, is what kind of object/instrument?

Ans ✗ 1. Underwater autonomous vehicle

    ✗ 2. Submarine

    ✓ 3. Manned submersible

    ✗ 4. Oil mineral explorer

Q.113 Which Article of the Indian Constitution is related to the appointment of 'Attorney General of India'?

Ans ✓ 1. Article 76

    ✗ 2. Article 73

    ✗ 3. Article 74

    ✗ 4. Article 75

Q.114 Select the correct sequence of colour observed when white light gets dispersed through a prism.

Ans ✗ 1. Green, Indigo, Orange and Red

    ✓ 2. Blue, Green, Yellow and Orange

    ✗ 3. Violet, Blue, Green and Yellow

    ✗ 4. Blue, Indigo, Green and Yellow

Q.115 When was St. Francis Church building constructed in Kochi?

Ans ✓ 1. 1503

    ✗ 2. 1510

    ✗ 3. 1609

    ✗ 4. 1616

Q.116 Which of the following statements is NOT true about the High Altitude Pseudo Satellite (HAPS) that was successfully tested in India in February 2024?

Ans ✓ 1. The flights are carried on in the troposphere.

    ✗ 2. It was developed by CSIR National Aerospace Laboratories.

    ✗ 3. It does not require rocket to launch.

    ✗ 4. HAPS operate much closer to Earth, resulting in lower latency.

Q.117 On which date did the Prime Minister of India Narendra Modi visit Ukraine, which was the first ever visit by an Indian Prime Minister to Ukraine since 1992?

Ans ✓ 1. 23 August 2024

    ✗ 2. 30 August 2024

    ✗ 3. 03 August 2024

    ✗ 4. 13 August 2024

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Q.118 Who among the following historical musicians is credited with formulating the Sarali Varisa and Sapta Tala Alankaras in the Carnatic Music?

Ans ✗ 1. Annamacharya

✗ 2. Muthuswami Dikshitar

✗ 3. Thyagaraja

✔ 4. Purandara Dasa

Q.119 In March 2024, who among the following assumed the charge of Chairman of National Commission for Scheduled Castes (NCSC)?

Ans ✗ 1. Lama Lobzang

✗ 2. Antar Singh Arya

✔ 3. Kishor Makwana

✗ 4. Kunwar Singh

Q.120 In March 2024, Nayab Singh Saini was sworn in as the new Chief Minister of which of the following states of India?

Ans ✗ 1. Assam

✔ 2. Haryana

✗ 3. Tamil Nadu

✗ 4. Madhya Pradesh

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Section : **Arithmetic**

Q.1 A vendor claims to sell wheat at a loss of 35%. But he cheats by using weights that weigh 60% less than what is mentioned on them. What is his profit percentage (rounded off to 2 decimal places)?

Ans ✗ 1. 57.39

✗ 2. 58.64

✗ 3. 64.56

✔ 4. 62.50

Q.2 Three partners invested in a business in the ratio 5:1:9. They invested their capitals for 2 months, 9 months and 11 months, respectively. What was the ratio of their profits?

Ans ✗ 1. 8:9:99

✔ 2. 10:9:99

✗ 3. 9:9:99

✗ 4. 13:9:99

Q.3 To obtain a mixture valued at ₹205.50 per kg, in what ratio should a grocer combine two types of pulses that cost ₹203 per kg and ₹215 per kg, respectively?

Ans ✗ 1. 17 : 5

✗ 2. 5 : 19

✗ 3. 5 : 17

✔ 4. 19 : 5

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Q.4 Express the following as a vulgar fraction.

$$0.\overline{27} + 0.\overline{39} + 3$$

Ans ✓ 1. $3\dfrac{2}{3}$

✗ 2. $3\dfrac{7}{3}$

✗ 3. $3\dfrac{1}{3}$

✗ 4. $3\dfrac{5}{3}$

Q.5 A sum, when invested at 10% simple interest per annum, amounts to ₹9360 after 2 years. What is the simple interest (in ₹) on the same sum at the same rate in 2 year?

Ans ✗ 1. 3120

✓ 2. 1560

✗ 3. 780

✗ 4. 6240

Q.6 During sale, Raghav bought a notebook marked for ₹15 at 80% discount and a pen marked for ₹100 at 66% discount. How much (in ₹) did he save due to sale?

Ans ✗ 1. 80

✓ 2. 78

✗ 3. 79

✗ 4. 75

Q.7 If x varies inversely as y^3 - 1 and is equal to 4 when y = 3, find x when y = 9.

Ans ✗ 1. $\dfrac{1}{8}$

✓ 2. $\dfrac{1}{7}$

✗ 3. $\dfrac{3}{7}$

✗ 4. $\dfrac{2}{8}$

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Q.8 A number when divided by a divisor leaves a remainder of 42. When thrice the original number is divided by the same divisor, the remainder is 74. What is the value of the divisor?

Ans ✗ 1. 53

✔ 2. 52

✗ 3. 54

✗ 4. 55

Q.9 In an election between two candidates, 80% of the voters cast their vote out of which 53 votes were declared invalid. The winner got 48% of all the voters in the list and he won by 1013 votes. The number of voters on the list was:

Ans ✗ 1. 5600

✗ 2. 6500

✗ 3. 5000

✔ 4. 6000

Q.10 The average of 7 numbers is 53. If each number is increased by 4, what will the new average be?

Ans ✗ 1. 53

✗ 2. 61

✗ 3. 7

✔ 4. 57

Q.11 Study the following graph carefully and answer the question given below. Marks scored by five students in subjects (Maths, English and Physics).
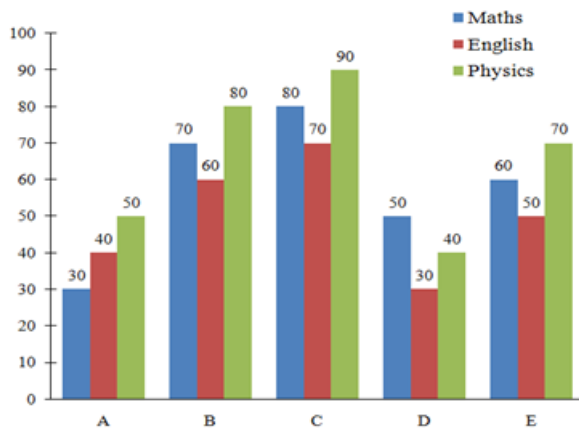
What is the difference between the total marks obtained by C and the total marks obtained by E?

Ans   ✗ 1. 80

    ✓ 2. 60

    ✗ 3. 40

    ✗ 4. 20

Q.12 Evaluate: 33 ÷ 11 × 3 - 3 × 3

Ans   ✗ 1. -1

    ✗ 2. 3

    ✓ 3. 0

    ✗ 4. 2

Q.13 Utsavi invested a sum of ₹7500 at 18% per annum compound interest, componded annually. If she received an amount of ₹10443 after n years, the value of n is:

Ans   ✓ 1. 2

    ✗ 2. 1.6

    ✗ 3. 2.79999995231628

    ✗ 4. 3

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Q.14 A man sold an article for ₹504 by first giving a d% discount on its marked price, and then another discount having the same nominal value (in ₹). If the marked price of the article is ₹3600, then what is the value of d?

Ans   ✗ 1. 38

      ✗ 2. 41

      ✗ 3. 39

      ✔ 4. 43

Q.15 Find the volume of a hemisphere of radius 7.7 cm. (Use π = 22/7) (Correct up to one decimal place)

Ans   ✗ 1. 856.5 cm^3

      ✗ 2. 756.5 cm^3

      ✗ 3. 656.5 cm^3

      ✔ 4. 956.5 cm^3

Q.16 The smallest 1-digit number to be added to the 6-digit number 649389 so that it is completely divisible by 11 is:

Ans   ✔ 1. 7

      ✗ 2. 8

      ✗ 3. 5

      ✗ 4. 6

Q.17 LCM and HCF of two numbers are 196 and 7 respectively. If one of the numbers is 49, then find the other number.

Ans   ✗ 1. 30

      ✗ 2. 29

      ✗ 3. 31

      ✔ 4. 28

Q.18 Express the following into a vulgar fraction.

$0.2\overline{34} + 0.\overline{29}$

Ans   ✔ 1. $\dfrac{29}{55}$

      ✗ 2. $\dfrac{23}{90}$

      ✗ 3. $\dfrac{25}{99}$

      ✗ 4. $\dfrac{29}{99}$

Q.19 The average age of Tinku, Pinku and Rinu was 36 years and that of Pinku and Rinu was 25 years. Find the age of Tinku.

Ans ✗ 1. 56 years

✔ 2. 58 years

✗ 3. 54 years

✗ 4. 52 years

Q.20 The volume (in cm³) of a wire of diameter 6 cm and length 7 m is:

$$take\ \pi\ =\ \frac{22}{7}$$

Ans ✗ 1. 20700

✗ 2. 19500

✔ 3. 19800

✗ 4. 20400

Q.21 Express the following as a vulgar fraction.

$$0.12\overline{3} + 0.0\overline{12} + 3$$

Ans ✗ 1. $3\frac{135}{990}$

✔ 2. $3\frac{134}{990}$

✗ 3. $3\frac{135}{999}$

✗ 4. $3\frac{134}{999}$

Q.22 A 976 m long train crosses a man walking at a speed of 3.7 km/h in the opposite direction in 16 seconds. What is the speed (in km/h) of the train?

Ans ✗ 1. 214.5

✗ 2. 211.8

✗ 3. 215.6

✔ 4. 215.9

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Q.23 Which of the following fractions is the largest?

$$\frac{5}{8}, \ \frac{5}{26}, \ \frac{63}{64}, \ \frac{44}{88}$$

Ans ✗ 1. $\dfrac{5}{8}$

✓ 2. $\dfrac{63}{64}$

✗ 3. $\dfrac{44}{88}$

✗ 4. $\dfrac{5}{26}$

Q.24 A dishonest vendor claims that he is selling goods at their cost price. But he is weighing 812 grams for 1000 grams. What is his profit percentage (rounded off to 2 decimal places)?

Ans ✓ 1. 23.15

✗ 2. 26.29

✗ 3. 20.91

✗ 4. 24.85

Q.25 A 150 m long train crosses a man walking at a speed of 4 km/h in the opposite direction in 25 seconds. What is the speed (in km/h) of the train?

Ans ✗ 1. 17.2

✓ 2. 17.6

✗ 3. 22.8

✗ 4. 15.6

Q.26 If the interest earned during the 2nd year on a certain sum is ₹8096, and the rate of interest is 10% per annum compounded annually, then the sum is:

Ans ✗ 1. ₹74550

✗ 2. ₹74495

✓ 3. ₹73600

✗ 4. ₹74570

Q.27 Lalit's average earning per month in the first three months of a year was ₹12544. In April, his earning was 50% more than the average earning in the first three months. If his average earning per month for the whole year is ₹41852, then what will be Lalit's average earning (in ₹) per month from May to December?

Ans   ✓ 1. 55722

       ✗ 2. 55725

       ✗ 3. 55719

       ✗ 4. 55718

Q.28 The average of 7 numbers is 51. If each number is increased by 7, what will the new average be?

Ans   ✗ 1. 7

       ✗ 2. 51

       ✓ 3. 58

       ✗ 4. 65

Q.29 Raghu completes his journey in 15 hours. He covers half the distance at 57 km/h and the rest at 78 km/h. What is the length of the journey (in Km)?

Ans   ✗ 1. 989

       ✓ 2. 988

       ✗ 3. 980

       ✗ 4. 994

Q.30 Given that $137^{0.1} = x$, $137^{0.68} = y$ and $x^z = y^4$, then the value of z is close to:

Ans   ✗ 1. 27.13

       ✗ 2. 25.05

       ✓ 3. 27.2

       ✗ 4. 29.14

Q.31 A 135 m long train crosses a man walking at a speed of 10.6 km/h in the opposite direction in 12 seconds. What is the speed (in km/h) of the train?

Ans   ✗ 1. 31.9

       ✓ 2. 29.8

       ✗ 3. 32.1

       ✗ 4. 34.4

Q.32 Bhavna and Bhumi invest in a business in the ratio 2 : 10. If total profit is Rs. 1140, then what is difference between the profit (in Rs.) of Bhavna and Bhumi?

Ans ✗ 1. 860

✗ 2. 910

✗ 3. 810

✓ 4. 760

Q.33 What is a cone's total surface area if its height is 20 cm and radius is 15 cm? (Use $\pi = \frac{22}{7}$)

Ans ✗ 1. $\frac{14860}{7}$ cm^2

✓ 2. $\frac{14850}{7}$ cm^2

✗ 3. $\frac{14880}{7}$ cm^2

✗ 4. $\frac{14870}{7}$ cm^2

Q.34 A number when increased by 50 %', gives 3600. The number is:

Ans ✗ 1. 1200

✗ 2. 4800

✓ 3. 2400

✗ 4. 7200

Q.35 Find the value of $\left[(27 \times 11) \times \left\{ 8 \div 8 \times \frac{(19 - 15)}{4} \right\} \right]$

Ans ✗ 1. 289

✓ 2. 297

✗ 3. 282

✗ 4. 309

Section : **General Intelligence and Reasoning**

Q.36 85 is related to 15 following a certain logic. Following the same logic, 70 is related to 12. To which of the following is 105 related, following the same logic? (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 – Operations on 13 such as adding / subtracting /multiplying to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

Ans ✗ 1. 25

✔ 2. 19

✗ 3. 23

✗ 4. 21

Q.37 If 1 is added to each odd digit and 2 is subtracted from each even digit in the number 2473681, what will be the sum of the digits that are second from the left and second from the right in the new number thus formed?

Ans ✗ 1. 7

✗ 2. 6

✗ 3. 9

✔ 4. 8

Q.38 Seven boxes, E, F, G, H, I, J and W, are kept one over the other but not necessarily in the same order. Only one box is kept above J. Only three boxes are kept between E and J. I is kept at one of the positions below E. Only W is kept between J and F. H is kept at one of the positions above J. How many boxes are kept between I and H?

Ans ✔ 1. Five

✗ 2. Three

✗ 3. One

✗ 4. Two

Q.39 Seven people, A, B, C, D, E, F and G, are sitting in a row, facing north. Only C sits to the left of A. Only four people sit between C and F. Only E sits between B and G, and B is not an immediate neighbour of F. How many people sit between A and F?

Ans ✗ 1. 4

✗ 2. 2

✔ 3. 3

✗ 4. 1

Q.40 R is the father of J. Q is the daughter of P. R is the son of S. J is the daughter of K. P is the wife of S. How is P related to K?

Ans ✔ 1. Husband's mother

✗ 2. Wife's father

✗ 3. Brother's wife

✗ 4. Father's sister

Q.41 Based on the English alphabetical order, three of the following four letter-cluster pairs are alike in a certain way and thus form a group. Which letter-cluster pair DOES NOT belong to that group?
(Note: The odd one out is not based on the number of consonants/vowels or their position in the letter-cluster.)

Ans ✗ 1. TO : RM

✔ 2. RK : NI

✗ 3. NI : LG

✗ 4. KF : ID

Q.42 Refer to the following letter and symbol series and answer the question that follows. Counting to be done from left to right only.

(Left) X R £ W % * Y # @ R U # G & # € £ * Q € U S (Right)

How many such symbols are there which are immediately preceded by a letter and also immediately followed by a symbol?

Ans ✗ 1. Six

✓ 2. Three

✗ 3. Five

✗ 4. Four

Q.43 PELB is related to LHHE in a certain way based on the English alphabetical order. In the same way, HKDH is related to DNZK. To which of the given options is ZQVN related to, following the same logic?

Ans ✗ 1. WUST

✗ 2. USQR

✓ 3. VTRQ

✗ 4. WSRP

Q.44 This question is based on the following words.

OWN EAR BUS APT

How many letters are there between the second letter of the first word from the right, and the second letter of the first word from the left?

Ans ✗ 1. 5

✗ 2. 7

✗ 3. 8

✓ 4. 6

Q.45 In a certain code language, 'FILE' is coded as '3571' and 'LOAD' is coded as '4216'. What is the code for 'L' in the given code language?

Ans ✗ 1. 4

✗ 2. 7

✓ 3. 1

✗ 4. 6

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Q.46 A is the sister of B. B is the brother of C. C is married to D. E is the son of C. B has only one sister. How is D related to E?

Ans   ✗ 1. Son

      ✗ 2. Father

      ✓ 3. Mother

      ✗ 4. Brother

Q.47 What should come in place of the question mark (?) in the given series?

47 48 52 61 ? 102

Ans   ✗ 1. 66

      ✗ 2. 88

      ✓ 3. 77

      ✗ 4. 99

Q.48 Three of the following four letter-clusters are alike in a certain way and thus form a group. Which is the letter-cluster that does NOT belong to that group? (Note: The odd one out is not based on the number of consonants/vowels or their positions in the letter-cluster.)

Ans   ✗ 1. RPNJ

      ✗ 2. AYWS

      ✓ 3. USQN

      ✗ 4. FDBX

Q.49 I, J, K, L, P, Q and R are sitting around a square table facing the centre of the table. Only three people sit to the left of K. Only R sits to the right of Q. Only three people sit between Q and L. P sits at some place to the left of I but at some place to the right of J. How many people sit between J and I?

Ans   ✗ 1. Four

      ✗ 2. One

      ✓ 3. Three

      ✗ 4. Two

Q.50 Shekhar ranked 24th from the top and 21st from the bottom in his class. How many students are there in his class?

Ans ✓ 1. 44

✗ 2. 41

✗ 3. 42

✗ 4. 43

Q.51 Bishal starts from Point A and drives 18 km towards south. He then takes a left turn, drives 17 km, turns left and drives 19 km. He then takes a left turn and drives 18 km. He takes a final left turn, drives 1 km and stops at Point P. How far (shortest distance) and towards which direction should he drive in order to reach Point A again? (All turns are 90 degrees turns only unless specified)
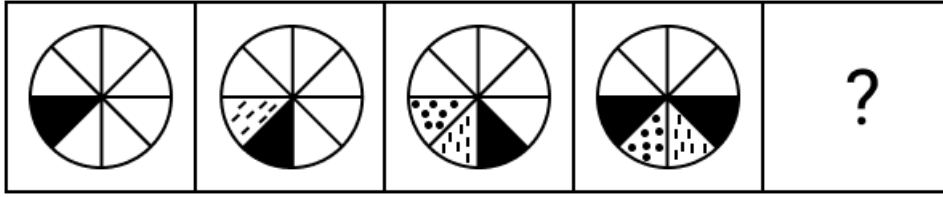
Ans ✗ 1. 3 km to the east

✓ 2. 1 km to the east

✗ 3. 4 km to the east

✗ 4. 2 km to the east

Q.52 Identify the figure given in the options which when put in place of the question mark (?) will logically complete the series.

Ans   1.

✔

2.

✘

3.

✘

4.

✘

Q.53 What should come in place of the question mark (?) in the given series based on the English alphabetical order?

JHO LJQ NLS PNU ?

Ans   ✘ 1. RPX

✘ 2. ROX

✔ 3. RPW

✘ 4. ROW

Q.54 Refer to the following letter and symbol series and answer the question that follows. Counting to be done from left to right only.

(Left) & P @ I T £ O £ D @ R # D K # U # U & $ A L (Right)

How many such symbols are there each of which is immediately preceded by a letter and also immediately followed by a letter?

Ans ✗ 1. 5

✔ 2. 7

✗ 3. 9

✗ 4. 8

Q.55 Which of the following letter-clusters should replace # and % so that the pattern and relationship followed between the letter-cluster pair on the left side of :: is the same as that on the right side of :: ?

: NTR :: LRP : %

Ans ✔ 1. # = IOM, % = QWU

✗ 2. # = PJM, % = KLU

✗ 3. # = ILK, % = QMJ

✗ 4. # = IPU, % = NJH

Q.56 Each letter in the word DEBRIS is changed to the letter immediately succeeding it in the English alphabetical order and then all the letters thus formed are arranged in English alphabetical order. Which of the following letters will be fifth from the right in the new group of letters thus formed?

Ans ✗ 1. J

✗ 2. C

✗ 3. F

✔ 4. E

Q.57 Y, A, T, C and H each has different marks in Urdu. Only two people have scored more than T. H has scored immediately less marks than C. A has scored the highest marks. How many people have scored less than Y?

Ans ✔ 1. Three

✗ 2. Four

✗ 3. One

✗ 4. Two

Q.58 Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.

M

CALIBb

N

Ans ✗ 1. ALIBbↃ

✔ 2. ꓷ BI⅃AↃ

✗ 3. ꓷ BI⅃CA

✗ 4. ꓷ BIAⅬↃ

Q.59 Aditya starts from Point A and drives 12 km towards South. He then takes a right turn, drives 9 km, turns right and drives 14 km. He then takes a right turn and drives 12 km. He takes a final right turn, drives 2 km and stops at Point P. How far (shortest distance) and towards which direction should he drive in order to reach Point A again? (All turns are 90 degree turns only unless specified.)

Ans ✗ 1. 4 km to the west

✔ 2. 3 km to the west

✗ 3. 4 km to the east

✗ 4. 3 km to the east

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Q.60 If 1 is added to each odd digit and 1 is subtracted from each even digit in the number 8375642, what will be the sum of the greatest and smallest digits in the new number thus formed?

Ans ✔ 1. 9

✘ 2. 8

✘ 3. 11

✘ 4. 12

Q.61 Three of the following four letter-cluster pairs are alike in a certain way and thus form a group. Which is the letter-cluster pair that does NOT belong to that group?
(Note: The odd one out is not based on the number of consonants/vowels or their positions in the letter-cluster.)

Ans ✘ 1. LD - IM

✔ 2. JB - GL

✘ 3. PH - MQ

✘ 4. NF - KO

Q.62 In a certain code language, 'ROAM' is coded as '6417' and 'WORM' is coded as '6274'. What is the code for 'W' in the given code language?

Ans ✘ 1. 4

✘ 2. 6

✔ 3. 2

✘ 4. 7

Q.63 What should come in place of the question mark (?) in the given series based on the English alphabetical order?

FMJ HOL JQN LSP ?

Ans ✘ 1. NTS

✔ 2. NUR

✘ 3. NTR

✘ 4. NUS

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Q.64 Two sets of numbers are given below. In each set of numbers, certain mathematical operation(s) on the first number result(s) in the second number. Similarly, certain mathematical operation(s) on the second number result(s) in the third number and so on. Which of the given options follows the same set of operations as in the given sets?

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 – Operations on 13 such as adding/subtracting/multiplying to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

36 - 34 - 31 - 27; 45 - 43 - 40 - 36

Ans ✔ 1. 49 - 47 - 44 - 40

✗ 2. 58 - 56 - 50 - 46

✗ 3. 64 - 62 - 49 - 45

✗ 4. 31 - 29 - 27 - 25

Q.65 Karan ranked 34th from the top and 38th from the bottom in his class. How many students are there in his class?

Ans ✗ 1. 73

✗ 2. 70

✔ 3. 71

✗ 4. 72

Q.66 Four of the following five figures are alike in a certain way and thus form a group. Which figure DOES NOT belong to that group?

D	F	μ	τ	#
D D	F F	μμ	ττ	Jη
A	B	C	D	E

Ans ✗ 1. C

✗ 2. A

✔ 3. E

✗ 4. B

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Q.67 Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusion(s) logically follow(s) from the statements.

Statements:
All hoodies are jackets.
All jackets are coats.
No jacket is a suit.

Conclusions:
(I) No coat is a suit.
(II) No hoodie is a suit.

Ans ✗ 1. Both conclusions (I) and (II) follow.

✔ 2. Only conclusion (II) follows.

✗ 3. Neither conclusion (I) nor (II) follows.

✗ 4. Only conclusion (I) follows.

Q.68 Each of the digits in the number 3825476 is arranged in ascending order from left to right. The position(s) of how many digits will remain unchanged as compared to that in the original number?

Ans ✗ 1. Three

✗ 2. One

✗ 3. None

✔ 4. Two

Q.69 In a certain code language, 'NOSE' is coded as '9876' and 'REAP' is coded as '4391'. What is the code for 'E' in that language?

Ans ✔ 1. 9

✗ 2. 3

✗ 3. 4

✗ 4. 6

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Q.70 HKOI is related to MPTN in a certain way based on the English alphabetical order. In the same way, FIMG is related to KNRL. To which of the following is DGKE related, following the same logic?

Ans ✗ 1. LIJP

✗ 2. ILJP

✔ 3. ILPJ

✗ 4. LIPJ

| Section : **General Awareness** |

Q.71 What is the name of the first warship of the Anti-Submarine Warfare Shallow Craft (ASW SWC) project under construction by CSL, Kochi whose first Keel laying ceremony was undertaken on 30 Aug 22?

Ans ✗ 1. Arnala

✗ 2. Malwan

✔ 3. Mahe

✗ 4. Mangrol

Q.72 Consider the motion of a rigid body which is pivoted or fixed in some way. The possible motion for such a system is best described by:

Ans ✔ 1. rotation

✗ 2. circular motion

✗ 3. translation

✗ 4. combination of rotation and translation

Q.73 As per the Census 2011, which of the following north-eastern states has the highest literacy rate?

Ans ✗ 1. Meghalaya

✔ 2. Tripura

✗ 3. Assam

✗ 4. Nagaland

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Q.74 _____ is the total value of goods and services produced in a country in addition to the income from abroad.

Ans ✗ 1. National Product/National Income

✗ 2. Net National Value

✗ 3. Average Product Income

✅ 4. Gross Domestic Product

Q.75 Who among the following are involved in the election of the President of India?

1. Elected members of the Lok Sabha

2. All members of the Rajya Sabha

3. Elected members of the State Assembly

4. Elected members of the State Legislative Council

Ans ✗ 1. 1, 2 and 3 only

✗ 2. 1, 2, 3 and 4

✗ 3. 1 and 2 only

✅ 4. 1 and 3 only

Q.76 Which of the following Articles of the Indian Constitution states that no person who is arrested shall be detained in custody without being informed?

Ans ✅ 1. Article 22

✗ 2. Article 19

✗ 3. Article 20

✗ 4. Article 21

Q.77 The resistances of the filament of two bulbs are R_1 and R_2. If both of these are connected in parallel, then the ratio of loss of power will be:

Ans ✗ 1. $\dfrac{R_1}{R_2}$

✗ 2. $\dfrac{R_2}{(R_1 + R_2)}$

✗ 3. $\dfrac{R_1}{(R_1 + R_2)}$

✅ 4. $\dfrac{R_2}{R_1}$

Q.78 What is the full form of the NAMASTE Scheme, to be implemented for a period of 3 years from FY 2023-24 to FY 2025-26?

Ans ✔ 1. National Action for Mechanised Sanitation Ecosystem

✘ 2. National Assistance for Manual Sanitation and Treatment Endeavors

✘ 3. National Aid for Mechanised Sanitation Technology Enhancement

✘ 4. National Approach for Manual Sanitation and Treatment Enhancement

Q.79 As per World Bank observation, rising rural wages and falling food prices brought about by agricultural intensification in the _____ and _____ helped to alleviate rural poverty in India.

Ans ✘ 1. 1960s; 1970s

✘ 2. 1940s; 1950s

✔ 3. 1970s; 1980s

✘ 4. 1950s; 1960s

Q.80 Under the reign of which of the following Mughal Emperors did Bahadur Shah attack Chittor?

Ans ✘ 1. Babur

✘ 2. Aurangzeb

✘ 3. Shah Jahan

✔ 4. Humayun

Q.81 Which of the following statements is correct regarding the Money Bill in the Parliament?

Ans ✘ 1. Money Bill can be introduced in either of the Houses of the Parliament.

✘ 2. Money Bill cannot be introduced in the Lok Sabha.

✔ 3. Money Bill can be introduced in the Lok Sabha only.

✘ 4. Money Bill can be introduced in the Rajya Sabha only.

Q.82 In August 2024, the Indian Air Force (IAF) gave clearance to which organisations to produce 200 Astra air-to-air missiles?

Ans ✘ 1. DRDO and HAL

✘ 2. DRDO and ISRO

✔ 3. DRDO and BDL

✘ 4. BDL and HAL

Q.83 Which Article discusses people born in the Indian province, people with either of their parents born in India and people who typically became Indian residents for five or more years instantaneously before the implementation of the Constitution?

Ans ✗ 1. Article 8

✗ 2. Article 4

✗ 3. Article 10

✓ 4. Article 5

Q.84 Dr. YS Rawat was appointed as the Director General of which of the following organisations in December 2023?

Ans ✗ 1. Geological Survey of India

✓ 2. Archaeological Survey of India

✗ 3. Zoological Survey of India

✗ 4. Botanical Survey of India

Q.85 Arrange the following acids in increasing order of acidic strength.
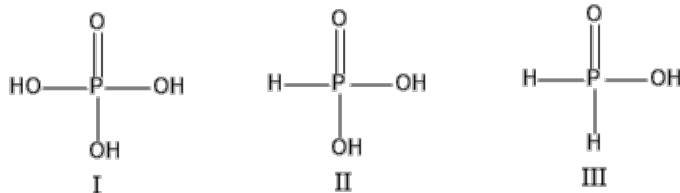
Ans ✗ 1. III<II<I

✓ 2. I<II<III

✗ 3. II<III<I

✗ 4. III<I<II

Q.86 When was the Disinvestment Commission established in India?

Ans ✓ 1. 1996

✗ 2. 1991

✗ 3. 1998

✗ 4. 1994

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Q.87 Which Indian bowler topped the chart of most wickets in the T20 World Cup 2024, along with Fazalhaq Farooqi of Afghanistan?

Ans ✗ 1. Mohammed Siraj

✗ 2. Jasprit Bumrah

✓ 3. Arshdeep Singh

✗ 4. Axar Patel

Q.88 The Mass Drug Administration Campaign to eliminate Lymphatic Filariasis is being carried out by the Government in around 63 district in 6 states. Which of the following is NOT one of those states?

Ans ✗ 1. Telangana

✗ 2. Jharkhand

✓ 3. Chhattisgarh

✗ 4. Karnataka

Q.89 Which of the following river systems is characterised by fixed course, absence of meanders, and non-perennial flow?

Ans ✓ 1. Peninsular

✗ 2. Brahmaputra

✗ 3. Ganga

✗ 4. Himalayan

Q.90 When was a member of the British Cabinet appointed as a 'Secretary of State for India' and made responsible for all matters related to the governance of India?

Ans ✗ 1. 1911

✗ 2. 1929

✗ 3. 1919

✓ 4. 1858

Q.91 Which of the following organisations became a member of G20 in 2023 under India's presidency?

Ans ✗ 1. South Asian Association for Regional Co-operation

✓ 2. African Union

✗ 3. Association of South East Asian Nations

✗ 4. The Quad group

Q.92 In the context of rural development, what is a critical challenge associated with traditional rural credit systems in India?

Ans ✔ 1. High reliance on informal sources leads to exploitative interest rates and debt traps for farmers

✗ 2. Interest rates are uniformly low, discouraging savings

✗ 3. Formal banking institutions entirely replace informal lenders, eliminating local financial practices

✗ 4. They provide too much credit to rural households, leading to inflation

Q.93 Which plan sets targets to cover all major aspects of the economy?

Ans ✗ 1. Partial plan

✔ 2. Comprehensive plan

✗ 3. Global plan

✗ 4. Imperative plan

Q.94 Who among the following started a Marathi fortnightly-Newspaper 'Mooknayak' in 1920?

Ans ✗ 1. Mahatma Gandhi

✗ 2. Swami Acchutanand

✔ 3. Dr BR Ambedkar

✗ 4. MC Rajah

Q.95 Which of the following natural heterogeneous polysaccharides present in the middle lamella strengthens the adjacent plant cells and provides cohesion to plant tissues?

Ans ✗ 1. Chitin

✗ 2. Algin

✔ 3. Pectin

✗ 4. Mucin

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Q.96 According to which of the following Articles of the Indian Constitution, there shall be a Comptroller and Auditor-General of India who shall be appointed by the President by warrant under his hand and seal?

Ans ✗ 1. Article 153

✓ 2. Article 148

✗ 3. Article 157

✗ 4. Article 145

Q.97 Which of the following statements is NOT true regarding basic food groups?

Ans ✗ 1. Include at least one or a minimum number of servings from each food group in each meal.

✗ 2. Include uncooked vegetables and fruits in the meals.

✓ 3. Cereals should supply more than 75% of the total Kcal/Calories.

✗ 4. Include at least one serving of milk to ensure a supply of calcium.

Q.98 Netaji Subhas Chandra Bose International Airport is situated in which of the following cities?

Ans ✓ 1. Kolkata

✗ 2. Mumbai

✗ 3. Chennai

✗ 4. New Delhi

Q.99 As on 30th September 2024, how many member countries are in the World Bank?

Ans ✓ 1. 189

✗ 2. 150

✗ 3. 171

✗ 4. 158

Q.100 The third battle of Panipat was fought between the Maratha Empire and (the) _____.

Ans ✓ 1. Durrani Empire

✗ 2. Sur Empire

✗ 3. Timurids

✗ 4. Uzbek

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Q.101 What is the primary role of the National Bank for Agriculture and Rural Development (NABARD) in the Indian economy?

Ans ✗ 1. Managing India's foreign exchange

✗ 2. Direct lending to industrial projects

✗ 3. Providing microloans to urban enterprises

✓ 4. Financing rural infrastructure and supporting agricultural development

Q.102 Who among the following exceptional musicians, unable to complete formal schooling, emerged as a musical genius and innovator, credited with inventing the Trimukhi, Panchamukhi, Saptamukhi, and Navamukhi ragas?

Ans ✗ 1. TM Krishna

✗ 2. L Subramaniam

✓ 3. M Balamuralikrishna

✗ 4. MS Subbulakshmi

Q.103 How many medals did the Team of Jammu and Kashmir win in the Khelo India Youth Games 2023?

Ans ✓ 1. 7

✗ 2. 5

✗ 3. 11

✗ 4. 9

Q.104 Which of the following Parts of the Indian Constitution deals with the provision regarding composition, appointment and removal of members along with the independence, power and function of the UPSC?

Ans ✗ 1. XIII

✗ 2. XII

✓ 3. XIV

✗ 4. XI

Q.105 Arrange the following rulers of the Sharqi dynasty in the chronological order.

Ans   ✗ 1. Mahmud Shah < Hussain Shah < Mubarak Shah < Ibrahim Shah

     ✗ 2. Hussain Shah < Mubarak Shah < Ibrahim Shah < Mahmud Shah

     ✓ 3. Mubarak Shah < Ibrahim Shah < Mahmud Shah < Hussain Shah

     ✗ 4. Hussain Shah < Ibrahim Shah < Mubarak Shah < Mahmud Shah

Q.106 Which amendment of the Indian Constitution asserted a list of 'Fundamental Duties'?

Ans   ✗ 1. 40

     ✗ 2. 41

     ✓ 3. 42

     ✗ 4. 43

Q.107 Who wrote 'Masterpieces of Vijayanagara Art'?

Ans   ✗ 1. RK Narayan

     ✓ 2. Dr. Sindigi Rajasekhara

     ✗ 3. Dr. V Ganapati Sthapati

     ✗ 4. Pranab Chandra Roy

Q.108 Which of the following statements is true about India's Chandrayaan –3 mission?

Ans   ✗ 1. LISA and LRA were amongst its lander payloads.

     ✗ 2. Propulsion Module placed the lander module in 100 km lunar orbit.

     ✓ 3. It was launched using GSLV.

     ✗ 4. RAMBHA and ChaSTE were amongst its rover payloads.

Q.109 Which of the following statements is INCORRECT about aneuploids?

Ans   ✗ 1. One or more chromosomes of a chromosome set either missing or having more copies

     ✗ 2. Unequal distribution of chromosomes to opposite poles

     ✓ 3. Organisms having more than two sets of chromosomes in each cell

     ✗ 4. Usually results from irregular meiotic division

Q.110 Who among the following was the first person to discuss the concept of the poverty line in pre-independent India?

Ans ✗ 1. Surendranath Banerjee

✓ 2. Dadabhai Naoroji

✗ 3. Balgangadhar Tilak

✗ 4. Annie Bessant

Q.111 In September 2024, V Satish Kumar took additional charge as Chairman of which of the following oil companies?

Ans ✗ 1. Gas Authority of India Limited (GAIL)

✗ 2. Oil and Natural Gas Corporation (ONGC)

✓ 3. Indian Oil Corporation Limited (IOCL)

✗ 4. Bharat Petroleum Corporation Limited (BPCL)

Q.112 In which of the following years was the first session of the All India Kisan Sabha held?

Ans ✗ 1. 1947

✓ 2. 1936

✗ 3. 1925

✗ 4. 1928

Q.113 CSpace, India's first government-backed Over-The-Top (OTT) platform which addresses challenges in selecting and distributing content, was launched in which of the following states of India in March 2024?

Ans ✗ 1. Maharashtra

✗ 2. West Bengal

✗ 3. Bihar

✓ 4. Kerala

Q.114 Which of the following is a common plant species found in tropical evergreen forests?

Ans ✗ 1. Teak

✓ 2. Mahogany

✗ 3. Cactus

✗ 4. Acacia

Q.115 The annual precipitation in Meghalaya exceeds 400 cm, while in Ladakh and western Rajasthan, it is less than 10 cm. Based on the statement, which of the following is the pattern of annual precipitation in India?

Ans ✗ 1. More in the northern parts

✗ 2. More in the western parts

✗ 3. Uniform across the country

✓ 4. Highly variable, with significant differences between regions

Q.116 According to Census 2011, which union territory has the lowest population?

Ans ✗ 1. Chandigarh

✗ 2. Daman and Diu

✗ 3. Dadra and Nagar Haveli

✓ 4. Lakshadweep

Q.117 Which of the following states is known for the dance form Jhoori which is connected with Jhoomar and involves both men and women singing and dancing?

Ans ✓ 1. Himachal Pradesh

✗ 2. Rajasthan

✗ 3. Punjab

✗ 4. Assam

Q.118 In which of the following years did Tata Tea acquire the UK-based Tetly?

Ans ✗ 1. 1998

✓ 2. 2000

✗ 3. 2001

✗ 4. 1999

Q.119 Who among the following kings became the follower of the Jainism towards the later stages of his life?

Ans ✗ 1. Bindusara

✓ 2. Chandragupta Maurya

✗ 3. Kunal

✗ 4. Ashoka

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Q.120 Who among the following was the Architect of the 'Basilica of Bom Jesus' in India?

Ans   ✗ 1. William Emerson

✔ 2. Julião Simão and Domingos Fernandes

✗ 3. Erbert Baker and Smith

✗ 4. George Wittet and Goerge Bush

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