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FOR RPF SI EXAM PREPARATION

RPF SI 2024 Question Paper · All Shifts English

EXAM	YEAR	TYPE	SUBJECT	DATE
RPF SI	2024	Question Paper	All Shifts English	02 Dec

रेल भर्ती बोर्ड / RAILWAY RECRUITMENT BOARDS

सी ई एन आर पी एफ - ०१/२०२४ - CEN RPF - 01/2024

Community	OBC NCL
Test Center Name	iON Digital Zone iDZ Sandalpur
Test Date	02/12/2024
Test Time	9:00 AM - 10:30 AM
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 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. 70%
✗ 2. 82%
✓ 3. 76%
✗ 4. 75%

Q.2 **Which of the following ratio is smallest?**

Ans
✓ 1. 11 : 60
✗ 2. 29 : 42
✗ 3. 17 : 33
✗ 4. 19 : 36

Q.3 **The selling price of 16 books is equal to the cost price of 12 books. Find the loss or gain percentage.**

Ans
✓ 1. 25 % loss
✗ 2. $\frac{100}{3}$ % loss
✗ 3. $\frac{100}{3}$ % gain
✗ 4. 25 % gain

Q.4 **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. 19 meters
✓ 2. 20 meters
✗ 3. 30 meters
✗ 4. 33 meters

Q.5 **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. 113463
✓ 2. 113466
✗ 3. 113470
✗ 4. 113471

Q.6 **A number when increased by 50 %', gives 3720. The number is:**

Ans
✗ 1. 1240
✓ 2. 2480
✗ 3. 4960
✗ 4. 7440

Q.7 **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. 23040
✗ 3. 23390
✗ 4. 22290

Q.8 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. ₹21652
- ✓ 2. ₹21666
- ✗ 3. ₹21672
- ✗ 4. ₹21682

Q.9 The value of

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

Ans
- ✓ 1. $-\frac{23}{14}$
- ✗ 2. $-\frac{32}{14}$
- ✗ 3. $-\frac{13}{14}$
- ✗ 4. $-\frac{27}{14}$

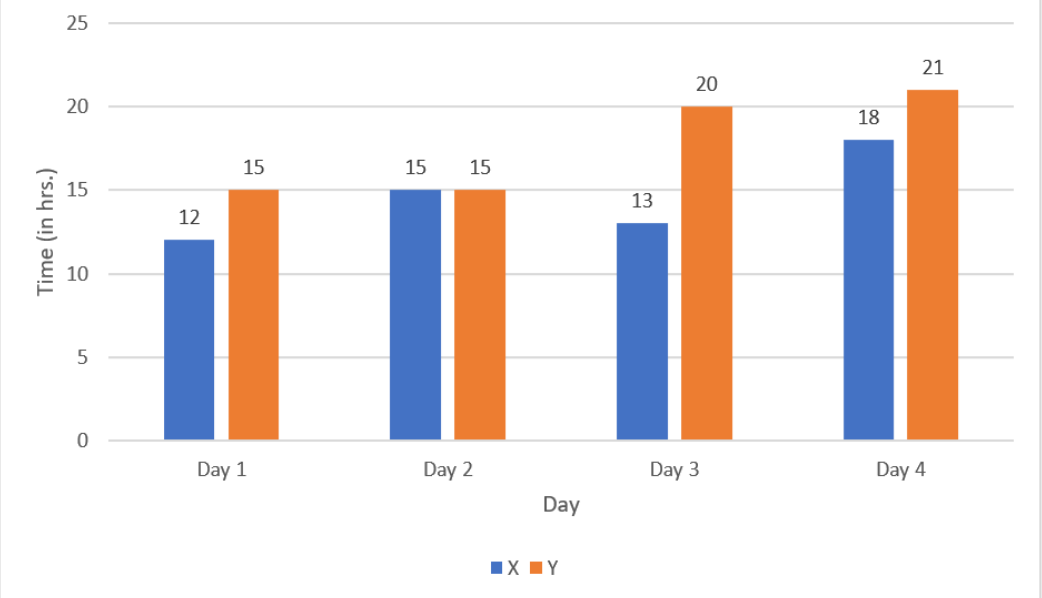
Q.10 Find the value of $\left[(35\div 5)\times\left\{\frac{12}{6}+\frac{25}{2}\times(9-7)\right\}\right]$

Ans
- ✗ 1. 170
- ✗ 2. 172
- ✗ 3. 174
- ✓ 4. 189

Q.11 **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. 2673 cm^3
- ✗ 2. 668 cm^3
- ✗ 3. 3564 cm^3
- ✗ 4. 891 cm^3

Q.12 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. 15.8
- ✗ 2. 18.5
- ✓ 3. 20.3
- ✗ 4. 23.5

Q.13 Find the value of $\left[(32 \div 8) \times \left\{\frac{15}{5} + \frac{30}{5} \times (7-2)\right\}\right]$

Ans
- ✗ 1. 116
- ✓ 2. 132
- ✗ 3. 149
- ✗ 4. 143

Q.14 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. 15915
- ✓ 2. 22281
- ✗ 3. 9549
- ✗ 4. 7427

Q.15 Ketan sold 171 chairs and had a gain equal to the selling price of 95 chairs. What is his profit percentage?

Ans
- ✗ 1. 120%
- ✗ 2. 135%
- ✗ 3. 130%
- ✓ 4. 125%

Q.16 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. 1.16
- ✓ 2. 1.82
- ✗ 3. 2.72
- ✗ 4. 0.09

Q.17 Express the following as a vulgar fraction.

Ans $0.\overline{54} + 0.2\overline{3}$
- ✗ 1. $\frac{771}{99}$
- ✗ 2. $\frac{771}{900}$
- ✗ 3. $\frac{771}{999}$
- ✓ 4. $\frac{771}{990}$

Q.18 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. 96813
- ✗ 2. 96804
- ✓ 3. 96808
- ✗ 4. 96803

Q.19 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. 40
- ✗ 3. 35
- ✗ 4. 36

Q.20 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.21 The average of 7 numbers is 53. If each number is increased by 6, what will the new average be?

Ans
- ✗ 1. 53
- ✗ 2. 7
- ✗ 3. 65
- ✓ 4. 59

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

Ans
✗ 1. 41
✗ 2. 47
✓ 3. 43
✗ 4. 45

Q.23 Which of the following fractions is the largest?

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

Ans
✓ 1. $\frac{20}{21}$
✗ 2. $\frac{45}{66}$
✗ 3. $\frac{9}{87}$
✗ 4. $\frac{2}{3}$

Q.24 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. 2400
✗ 2. 300
✗ 3. 1200
✓ 4. 600

Q.25 Find the volume (in cm^3) of a cylinder that circumscribes a sphere with a radius of 2.8 cm. $\left(\text{Use } \pi = \frac{22}{7}\right)$

Ans
✓ 1. 137.984
✗ 2. 142.984
✗ 3. 140.984
✗ 4. 145.984

Q.26 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. 359
✓ 2. 360
✗ 3. 354
✗ 4. 356

Q.27 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. 35
✗ 4. 32

Q.28 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. 112
✗ 2. 110
✗ 3. 118
✗ 4. 120

Q.29 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 th

Ans
✗ 1. 124
✗ 2. 186
✗ 3. 154
✓ 4. 171

Q.30 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. 11.88 km/h
✘ 3. 19.07 km/h
✘ 4. 28.44 km/h

Q.31 If third proportional of 76 and 38 be x, then what is the value of x?

Ans
✘ 1. 16
✘ 2. 17
✔ 3. 19
✘ 4. 22

Q.32 If x varies inversely as $y^3 - 1$ and is equal to 6 when y = 3, find x when y = 8.

Ans
✘ 1. $\frac{156}{512}$
✘ 2. $\frac{157}{512}$
✔ 3. $\frac{156}{511}$
✘ 4. $\frac{158}{511}$

Q.33 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 cm^2) of the top part. (use π = 3.14)

Ans
✘ 1. $14.65\sqrt{15}$
✘ 2. $15.46\sqrt{10}$
✘ 3. $12.56\sqrt{30}$
✔ 4. $12.56\sqrt{65}$

Q.34 Evaluate 147^2

Ans
✘ 1. 21629
✘ 2. 21639
✘ 3. 21669
✔ 4. 21609

Q.35 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. 6
✘ 2. 2
✘ 3. 9
✔ 4. 5

Section : **General Intelligence and Reasoning**

Q.36 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. NE - IK
✘ 3. TK - OR
✘ 4. QH - LO

Q.37 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. OOW : MPV
✘ 2. DTU : BQW
✘ 3. XQN : VSM
✘ 4. NTS : KVQ

Q.38 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

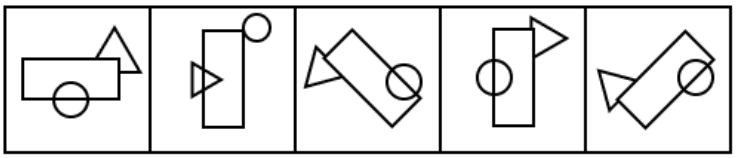
Q.39 In a certain code language, 'OWES' is coded as '5172' and 'NEWS' is coded as '4521'. What is the code for 'N' in that language?

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

Q.40 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. XTPS
- ✗ 2. XTSP
- ✓ 3. TXPS
- ✗ 4. TXSP

Q.41 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. B
- ✗ 3. A
- ✗ 4. C

Q.42 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. 7
- ✗ 2. 5
- ✗ 3. 9
- ✗ 4. 1

Q.43 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. 121
- ✗ 3. 111
- ✗ 4. 99

Q.44 Select the letter-cluster from among the given options that can replace the question mark (?) in the following series.

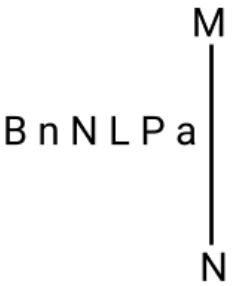
HIF KLI NOL QRO ?

Ans
- ✓ 1. TUR
- ✗ 2. TUS
- ✗ 3. SVR
- ✗ 4. TVS

Q.45 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. Three
- ✓ 3. One
- ✗ 4. Four

Q.46 Select the correct mirror image of the given figure when the mirror is placed at line MN as shown.



Ans
1. Pa⅃ИnB
2. ɐ9⅃ИnB
3. ɐ9⅃nNB
4. ɐ9⅃ИBn

Q.47 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 South
3. 6 km to the North
4. 5 km to the North

Q.48 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. MPO 15
3. BYR 21
4. NRO 27

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. *
2. F
3. Q
4. E

Q.50 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. 6
2. 7
3. 8
4. 9

Q.51 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. 3 km to the South
2. 4 km to the South
3. 1 km to the South
4. 2 km to the South

Q.52 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. NQT
2. VXB
3. ZBF
4. SUY

Q.53 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. 3
✗ 2. 0
✗ 3. 2
✓ 4. 1

Q.54 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.55 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. Two
✗ 2. One
✓ 3. Three
✗ 4. Four

Q.56 What will come in the place of the question mark (?) in the following equation, if '×' and '+' are interchanged and '−' and '÷' are interchanged?

44 ÷ 9 × 32 − 8 + 4 = ?

Ans
✗ 1. 52
✗ 2. 54
✓ 3. 51
✗ 4. 53

Q.57 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. 99 - 92 - 86 - 81
✗ 3. 64 - 56 - 40 - 36
✓ 4. 93 - 85 - 79 - 75

Q.58 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 are grapes.
(II): Some oranges are grapes.

Ans
✗ 1. Only conclusion II follows
✗ 2. Neither conclusion I nor II follows
✗ 3. Both conclusions I and II follow
✓ 4. Only conclusion I follows

Q.59 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.60 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. 248, 276

✘ 2. 259, 286

✘ 3. 247, 275

✘ 4. 246, 277

Q.61 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. 1

✘ 3. 3

✘ 4. 0

Q.62 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

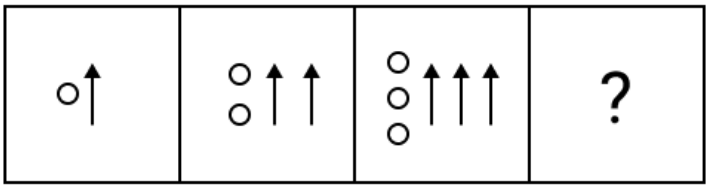
✘ 1. DG-IL

✔ 2. CE-HK

✘ 3. BE-GJ

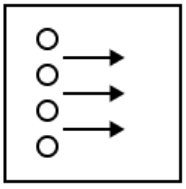
✘ 4. AD-FI

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

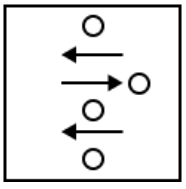


Ans

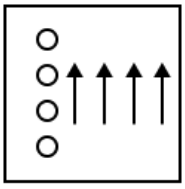
✘ 1.



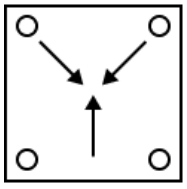
✘ 2.



✔ 3.



✘ 4.



Q.64 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. One

✘ 2. Four

✘ 3. Three

✔ 4. Two

Q.65 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. GJMU
✗ 2. FLNT
✓ 3. EKMT
✗ 4. DKLS

Q.66 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. 5
✗ 2. 2
✓ 3. 3
✗ 4. 1

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.)

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

Ans
✓ 1. (7, 29, 22)
✗ 2. (37, 58, 18)
✗ 3. (17, 32, 12)
✗ 4. (18, 42, 21)

Q.68 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. U
✗ 2. S
✓ 3. W
✗ 4. T

Q.69 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. 35
✗ 2. 45
✗ 3. 38
✓ 4. 48

Q.70 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 mother's father
✓ 2. Wife's mother's father's brother
✗ 3. Wife's mother's father's father
✗ 4. Wife's mother's mother's brother

Section : General Awareness

Q.71 Who among the following was the founder of Indian Space Research Organisation (ISRO)?

Ans
✓ 1. Vikram Sarabhai
✗ 2. Satish Dhawan
✗ 3. Dr Homi J Bhabha
✗ 4. Dr APJ Abdul Kalam

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

Ans
✗ 1. Pre-monsoon
✓ 2. Post-monsoon
✗ 3. Winter
✗ 4. Monsoon

Q.73 Which of the following species of catfish was first discovered in the state of Arunachal Pradesh in March 2023?

Ans
✗ 1. Exostoma sentiyonoae
✗ 2. Amblyceps laticeps
✓ 3. Exostoma dhritiae
✗ 4. Glyptothorax punyabratai

Q.74 Asif Ali Zardari, who took oath as Pakistan's 14th President in March 2024, replaced who among the following?

Ans
✗ 1. Shehbaz Sharif
✗ 2. Mamnoon Hussain
✓ 3. Arif Alvi
✗ 4. Shahid Khaqan Abbasi

Q.75 Which of the following NABARD subsidiaries sets an objective to provide credit facilities to individuals and other legal entities?

Ans
✓ 1. NABSAMRUDDHI
✗ 2. NABCONS
✗ 3. NABFOUNDATION
✗ 4. NABVENTURE

Q.76 Which of the following data sources is used for estimating extreme poverty in India?

Ans
✓ 1. Household Consumer Expenditure Surveys
✗ 2. National Census data
✗ 3. Agricultural production data
✗ 4. National Income data

Q.77 Which of the following is NOT a symptom of Salmonella infection?

Ans
✓ 1. Vomiting
✗ 2. Fever
✗ 3. Diarrhoea
✗ 4. Abdominal cramps

Q.78 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 can choose any government veterinary hospital to implement the Animal Birth Control programme.
✓ 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 are allowed to formulate guidelines on how to deal with human and stray dog conflicts.
✗ 4. Only the state governments are allowed to carry Animal Birth Control.

Q.79 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 manufacturing
✓ 2. Manufacturing components and subsystems for satellites
✗ 3. Launch vehicle and systems / sub-systems
✗ 4. Satellite products

Q.80 In which of the following types of forests are the spotted deer found?

Ans
✗ 1. Mangrove Forests
✓ 2. Montane Forests
✗ 3. Deciduous Forests
✗ 4. Thorn Forests

Q.81 The provision of 'Impeachment of President' in the Indian Constitution is borrowed from the Constitution of _____.

Ans
✗ 1. Canada
✗ 2. Britain
✓ 3. United States of America
✗ 4. French

Q.82 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. Malaysia
✗ 2. Japan
✗ 3. Singapore
✓ 4. South Korea

Q.83 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 31
✗ 2. Article 28
✓ 3. Article 30
✗ 4. Article 29

Q.84 'Ichthyophis beddomei', a worm-like amphibian that can swim, belongs to which genus?

Ans
- ✗ 1. Long hind limbs amphibia
- ✗ 2. Short limbs amphibia
- ✓ 3. Limbless amphibia
- ✗ 4. Reduced forelimbs amphibia

Q.85 Who among the following was the leader of the Wahabi movement in India?

Ans
- ✗ 1. Shah Waliullah
- ✓ 2. Syed Ahmed Barelvi
- ✗ 3. Sir Syed Ahmed Khan
- ✗ 4. Jamal Ahmad Khan

Q.86 _____ is a kind of quantitative and qualitative process of change which cannot be measured.

Ans
- ✓ 1. Evolution
- ✗ 2. Growth
- ✗ 3. Development
- ✗ 4. Progress

Q.87 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. Only 1 and 2
- ✗ 2. Only 2 and 3
- ✗ 3. All 1, 2 and 3
- ✓ 4. Only 1 and 3

Q.88 Which of the following was the correct ascending order of administration units of the Rashtrakuta dynasty?

Ans
- ✗ 1. Bhukti > Rashtra > Vishaya
- ✓ 2. Bhukti > Vishaya > Rashtra
- ✗ 3. Gana > Bhukti > Desha
- ✗ 4. Vishaya > Bhukti > Rashtra

Q.89 According to the Census 2011, which of the following union territories of India has the least population density?

Ans
- ✓ 1. Andaman and Nicobar islands
- ✗ 2. Lakshadweep
- ✗ 3. Puducherry
- ✗ 4. Chandigarh

Q.90 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. Southern India
- ✗ 2. Western India
- ✗ 3. Eastern India
- ✗ 4. Northern India

Q.91 The laws of inheritance form the foundation of classical genetics. Who among the following first described the laws of inheritance?

Ans
- ✓ 1. Gregor Mendel
- ✗ 2. Dmitri Mendeleev
- ✗ 3. Alfred Russel Wallace
- ✗ 4. Charles Darwin

Q.92 Which of the following Articles of the Indian Constitution is related to Comptroller and Auditor General (CAG)?

Ans
- ✗ 1. Article 130
- ✓ 2. Article 148
- ✗ 3. Article 140
- ✗ 4. Article 135

Q.93 Which of the following articles deals with language to be used in the Parliament?

Ans
- ✗ 1. 118
- ✓ 2. 120
- ✗ 3. 119
- ✗ 4. 121

Q.94 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. Baba Allauddin Khan
- ✗ 3. Ustad Abdul Karim Khan
- ✓ 4. Pandit Vishnu Narayan Bhatkhande

Q.95 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.96 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. Uttar Pradesh and Maharashtra
- ✗ 3. Bihar and Rajasthan
- ✗ 4. Uttar Pradesh and Madhya Pradesh

Q.97 Who among the following was the first-ever Supreme Court Justice against whom a motion for removal was initiated?

Ans
- ✓ 1. Hon'ble Mr. Justice Ramaswamy
- ✗ 2. Hon'ble Justice Shanti Sarup Dewan
- ✗ 3. Hon'ble Mr. Justice Jitendra Vir Gupta
- ✗ 4. Hon'ble Mr. Justice M.M. Punchhi

Q.98 Who among the following wrote the book, 'The White Tiger'?

Ans
- ✗ 1. Arundhati Roy
- ✗ 2. Chitra Divakaruni
- ✗ 3. Rajiv Malhotra
- ✓ 4. Aravind Adiga

Q.99 Who among the following muslim leaders first propounded the theory of 'Two nations'?

Ans
- ✗ 1. Rahmat Ali Chaudhary
- ✓ 2. Mohammad Iqbal
- ✗ 3. Liaqat Ali
- ✗ 4. Muhammad Ali Jinnah

Q.100 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. The acceleration of an object depends on the mass of the object and the amount of force applied.
- ✗ 4. 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.

Q.101 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. Pandit Kishan Maharaj
- ✓ 2. Ustad Alladiya Khan
- ✗ 3. Ustad Zakir Hussain
- ✗ 4. Pandit Anindo Chatterjee

Q.102 Which of the following programmes aims to improve the food and nutritional status of people experiencing poverty?

Ans
- ✓ 1. Public Distribution System
- ✗ 2. Pradhan Mantri Kaushal Kendras
- ✗ 3. Craftsmen Training Scheme
- ✗ 4. Skill Loan Scheme

Q.103 Arrange the following rulers of the Slave dynasty in the chronological order.

Ans
- ✓ 1. Ruknuddin Firozshah < Bahramshah < Alauddin Masood Shah < Naseeruddin Mahmood
- ✗ 2. Naseeruddin Mahmood < Bahramshah < Ruknuddin Firozshah < Alauddin Masood Shah
- ✗ 3. Bahramshah < Ruknuddin Firozshah < Naseeruddin Mahmood < Alauddin Masood Shah
- ✗ 4. Bahramshah < Alauddin Masood Shah < Naseeruddin Mahmood < Ruknuddin Firozshah

Q.104 The Street Vendor's AtmaNirbhar Nidhi (PM SVANidhi) Scheme for micro-credit completed how many years in June 2023?

Ans
- ✗ 1. 2 years
- ✗ 2. 1 year
- ✓ 3. 3 years
- ✗ 4. 4 years

Q.105 Images those are formed on a screen is termed as:

Ans
- ✗ 1. imaginary
- ✗ 2. virtual
- ✓ 3. real
- ✗ 4. real in some cases

Q.106 Which of the following is the main measure used to evaluate a nation's economic health?

Ans
- ✗ 1. Net Factor Income from Abroad (NFI)
- ✓ 2. Gross Domestic Product (GDP)
- ✗ 3. Gross National Product (GNP)
- ✗ 4. National Income

Q.107 Who has become the first woman sniper of the Border Security Force (BSF) in 2024?

Ans
- ✗ 1. Sunita Sharma
- ✗ 2. Poonam Yadav
- ✗ 3. Anjali Singh
- ✓ 4. Suman Kumari

Q.108 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 0.3 per cent of GDP each year
- ✗ 2. The reduction in fiscal deficit by 0.2 per cent of GDP each year
- ✗ 3. The reduction in fiscal deficit by 0.4 per cent of GDP each year
- ✗ 4. The reduction in fiscal deficit by 0.5 per cent of GDP each year

Q.109 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. Nepal
- ✗ 2. Sudan
- ✗ 3. Syria
- ✓ 4. Jordan

Q.110 Bhirrana, a Neolithic site, is situated in _____state.

Ans
- ✗ 1. Madhya Pradesh
- ✗ 2. Rajasthan
- ✗ 3. Gujarat
- ✓ 4. Haryana

Q.111 Who among the following is the ex-officio Chairman of the Rajya Sabha?

Ans
- ✗ 1. Leader of Opposition
- ✗ 2. President of India
- ✓ 3. Vice-President of India
- ✗ 4. Senior Member of Rajya Sabha

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

Ans
- ✗ 1. Swarna Jayanti Shahri Rojgar Yojana
- ✗ 2. Prime Minister's Rozgar Yojana
- ✗ 3. Swarnajayanti Gram Swarozgar Yojana
- ✓ 4. Rural Employment Generation Programme

Q.113 The idea of Justice (Social, Economic and Political) in the Preamble of Indian Constitution has been taken from the Constitution of _____.

Ans
- ✓ 1. Russia
- ✗ 2. France
- ✗ 3. America
- ✗ 4. Japan

Q.114 Which of the following states is NOT connected to the Golden Quadrilateral highway network?

Ans
- ✗ 1. West Bengal
- ✗ 2. Andhra Pradesh
- ✓ 3. Kerala
- ✗ 4. Tamil Nadu

Q.115 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. Nashik
- ✓ 3. Nagpur
- ✗ 4. Mumbai

Q.116 In which month is the Hornbill festival celebrated in India?

Ans
- ✗ 1. March
- ✗ 2. May
- ✗ 3. July
- ✓ 4. December

Q.117 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. 4, 2, 3, 1
- ✓ 4. 1, 4, 3, 2

Q.118 Who among the following has assumed the charge of Chief of Army Training Command, Shimla in 2022?

Ans
- ✓ 1. Lt Gen SS Mahal
- ✗ 2. Lt Gen J S Nain
- ✗ 3. Lt Gen C P Mohanty
- ✗ 4. Lt Gen Raj Shukla

Q.119 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. Karnataka
- ✗ 2. Odisha
- ✓ 3. Uttar Pradesh
- ✗ 4. West Bengal

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. Thiruvananthapuram
- ✗ 2. Bhubaneshwar
- ✗ 3. Vishakhapatnam
- ✓ 4. Kolkata

2024/12/03-14:37:55

रेल भर्ती बोर्ड / RAILWAY RECRUITMENT BOARDS

सी ई एन आर पी एफ - ०१/२०२४ - CEN RPF - 01/2024

Community	SC
Test Center Name	iON Digital Zone iDZ Luthergiri
Test Date	02/12/2024
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 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. 143
- ✓ 2. 150
- ✗ 3. 145
- ✗ 4. 154

Q.2 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. 45
- ✗ 2. 50
- ✓ 3. 47
- ✗ 4. 44

Q.3 20% of a number is more than 20% of 530 by 180. The number is:

Ans
- ✗ 1. 1480
- ✓ 2. 1430
- ✗ 3. 1280
- ✗ 4. 1530

Q.4 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. 7 hours 30 minutes
- ✗ 3. 6 hours 45 minutes
- ✗ 4. 5 hours 15 minutes

Q.5 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. 1961
- ✗ 2. 1955
- ✗ 3. 1966
- ✓ 4. 1960

Q.6 **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. 8%
- ✗ 4. 10%

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

Ans
- ✗ 1. 54
- ✓ 2. 56
- ✗ 3. 42
- ✗ 4. 46

Q.8 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. 5
- ✗ 2. 7
- ✗ 3. 9
- ✓ 4. 3

Q.9 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. 8.74 km/h
- ✗ 2. 10.24 km/h
- ✓ 3. 2.65 km/h
- ✗ 4. 9.49 km/h

Q.10 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. ₹34656
- ✗ 2. ₹35535
- ✗ 3. ₹32910
- ✗ 4. ₹34445

Q.11 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. 4.75 km/h
- ✗ 2. 9.17 km/h
- ✗ 3. 3.35 km/h
- ✗ 4. 7.51 km/h

Q.12 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. 33.33
- ✗ 2. 34.33
- ✗ 3. 35.33
- ✗ 4. 32.33

Q.13 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. 16 kg
- ✗ 2. 12 kg
- ✓ 3. 14 kg
- ✗ 4. 10 kg

Q.14 Express the following into vulgar fraction.

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

Ans
- ✗ 1. $2\frac{17}{9}$
- ✗ 2. $2\frac{19}{30}$
- ✓ 3. $2\frac{34}{90}$
- ✗ 4. $2\frac{11}{9}$

Q.15 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. 24
- ✓ 2. 25
- ✗ 3. 23
- ✗ 4. 26

Q.16 Which of the following fractions is the largest?

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

Ans

✗ 1. $\frac{7}{84}$

✗ 2. $\frac{48}{79}$

✓ 3. $\frac{48}{55}$

✗ 4. $\frac{6}{9}$

Q.17 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. $3\frac{5}{9}$

✗ 2. $5\frac{5}{9}$

✗ 3. $4\frac{5}{9}$

✗ 4. $2\frac{5}{9}$

Q.18 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. 36

✗ 2. 72

✗ 3. 63

✓ 4. 27

Q.19 Evaluate: 33 ÷ 11 × 3 - 3 × 4

Ans

✗ 1. -1

✗ 2. 0

✓ 3. -3

✗ 4. -4

Q.20 Express the following as a vulgar fraction.

$0.\overline{013} + 0.\overline{32}$

Ans

✗ 1. $\frac{111}{333}$

✗ 2. $\frac{111}{990}$

✓ 3. $\frac{111}{330}$

✗ 4. $\frac{111}{999}$

Q.21 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. 78%

✗ 3. 68%

✓ 4. 73%

Q.22 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. 138867

✓ 2. 138870

✗ 3. 138869

✗ 4. 138871

Q.23 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. 182000

✓ 2. 185900

✗ 3. 169000

✗ 4. 143000

Q.24 The value of

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

Ans

✗ 1. $-\frac{1}{12}$

✗ 2. $\frac{15}{12}$

✓ 3. $\frac{8}{12}$

✗ 4. $\frac{7}{12}$

Q.25 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. ₹249.4

✗ 2. ₹247.69

✓ 3. ₹257.69

✗ 4. ₹267.87

Q.26 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. 27.67

✗ 2. 28.67

✓ 3. 26.67

✗ 4. 25.67

Q.27 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. 0.87

✓ 3. 0.54

✗ 4. 0.93

Q.28 Find the value of $\left[(81 \div 3) \times \left\{\frac{40}{8} + \frac{34}{2} \times (9-7)\right\}\right]$

Ans

✗ 1. 1071

✓ 2. 1053

✗ 3. 1037

✗ 4. 1067

Q.29 A hollow spherical shell is made of a metal of density 6 g/cm^3. Its internal and external radius are 2 cm and 4 cm, respectively. What is the weight (in kg) of the shell ?

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

Ans

✓ 1. 1.408

✗ 2. 3.28

✗ 3. 2.73

✗ 4. 1.592

Q.30 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. 1785

✗ 2. 1885

✗ 3. 1635

✗ 4. 1935

Q.31 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. 2150

✗ 2. 2300

✗ 3. 2200

✗ 4. 2000

Q.32 Find the surface area of a sphere whose diameter is equal to 18 cm.

Ans

✗ 1. 69 cm^2

✓ 2. 324 cm^2

✗ 3. 792 cm^2

✗ 4. 886 cm^2

Q.33 A man sold an article for ₹630 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 ₹700, then what is the value of d?

Ans
1. 9
2. 8
3. 7
4. 5

Q.34 By selling an article at $\frac{3}{8}$ of its actual selling price, Sharad incurs a loss of 19%. If he sells it at 60% of its actual selling price, then t

Ans
1. 30.6%
2. 32.3%
3. 31.9%
4. 29.6%

Q.35 The area of a square plot is 15876 m^2. The length of each side of the plot (in m) is:

Ans
1. 118
2. 128
3. 126
4. 106

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

How many such symbols are there which are immediately preceded by a letter and also immediately followed by a number?

Ans
1. 2
2. 5
3. 4
4. 3

Q.37 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. Four
2. Two
3. Three
4. One

Q.38 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. 4
2. 3
3. 2
4. 1

Q.39 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. 5
2. 4
3. 3
4. 2

Q.40 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?

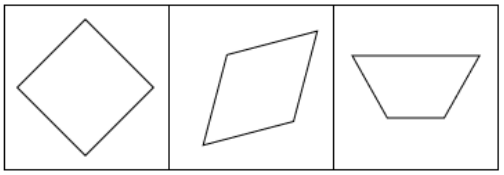
(Note: The odd man out is not based on the number of consonants/vowels or their position in the letter-cluster.)

Ans
1. BFL
2. JNT
3. FJP
4. NRY

Q.41 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?

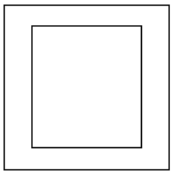
Ans
1. 2
2. 3
3. 1
4. 4

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.

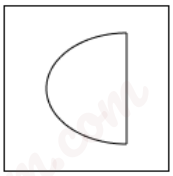


Ans

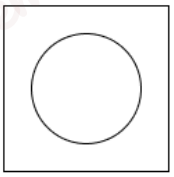
✔ 1.



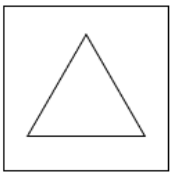
✘ 2.



✘ 3.



✘ 4.



Q.43 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. XO - RU

✘ 2. RI - LP

✘ 3. OF - IM

✘ 4. UL - OS

Q.44 Refer to the following letter, symbol series and answer the question that follows.
(Left) 3 Ω 9 $ 7 6 @ 5 1 * # % & 8 2 + 4 £ (Right)
If all the symbols are dropped from the series, which of the following will be fifth from the right?

Ans

✘ 1. 7

✘ 2. 8

✘ 3. 6

✔ 4. 5

Q.45 G is the daughter of F. F is the sister of K. K is the son of H. H is the husband of E. How is G related to E?

Ans

✘ 1. Mother's sister

✔ 2. Daughter's daughter

✘ 3. Mother's mother

✘ 4. Daughter's son

Q.46 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 daughter

✘ 2. Mother's brother's wife

✘ 3. Father's brother's wife

✘ 4. Mother's brother's daughter

Q.47 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. 8

✔ 2. 10

✘ 3. 9

✘ 4. 7

Q.48 What should come in place of the question mark (?) in the given series?

38 37 40 39 42 ?

Ans
- ✗ 1. 44
- ✗ 2. 43
- ✗ 3. 40
- ✓ 4. 41

Q.49 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. KHF -8
- ✓ 4. JRL -9

Q.50 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 South
- ✗ 3. 5 km towards West
- ✓ 4. 3 km towards West

Q.51 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. 8
- ✓ 2. 6
- ✗ 3. 2
- ✗ 4. 4

Q.52 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. JKO
- ✗ 3. JKP
- ✗ 4. JLP

Q.53 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. 1
- ✗ 2. 4
- ✗ 3. 2
- ✗ 4. 5

Q.54 All 91 people are standing in a row facing north. Fi is 12^{th} from the right end while Yu is 86^{th} from the left end. How many people are there between Fi and Yu?

Ans
- ✗ 1. 4
- ✗ 2. 6
- ✓ 3. 5
- ✗ 4. 3

Q.55 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. EZM : BBK
- ✗ 2. KAQ : HCT
- ✗ 3. SMY : QNX
- ✗ 4. WKA : ULZ

Q.56 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. 6
- ✗ 2. 8
- ✗ 3. 1
- ✗ 4. 4

Q.57 Each letter in the word CLAUSE 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. V
- ✓ 3. M
- ✗ 4. T

Q.58 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. OL-RN-TX
✘ 3. PL-RN-TX
✘ 4. OL-RM-TX

Q.59 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. 18
✘ 2. 24
✘ 3. 15
✔ 4. 12

Q.60 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. CF - JM
✔ 2. MR - UN
✘ 3. PS - WZ
✘ 4. IL - PS

Q.61 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. 69
✘ 2. 41
✔ 3. 57
✘ 4. 76

Q.62 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. 9
✔ 2. 3
✘ 3. 5
✘ 4. 6

Q.63 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. 384
✘ 2. 404
✘ 3. 374
✘ 4. 394

Q.64 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?

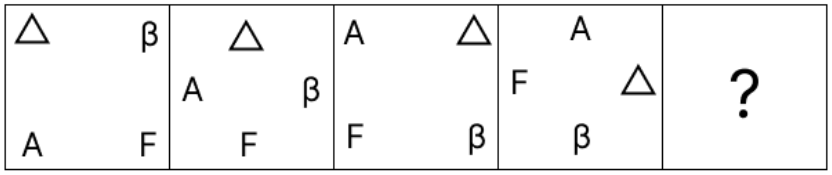
Ans
✘ 1. 2
✘ 2. 3
✘ 3. 1
✔ 4. 4

Q.65 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.

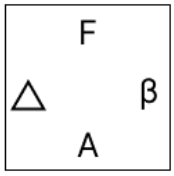
PLOT - LTOP - TOLP
BEAN - ENAB - NAEB

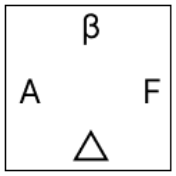
Ans
✘ 1. QUIT - UQIT - TUIQ
✔ 2. CRAP - RPAC - PARC
✘ 3. TOWN - OTWN - NOWT
✘ 4. WEST - WSET - TSEW

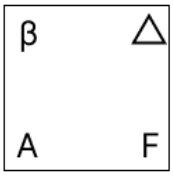
Q.66 Identify the figure given in the options which when put in place of '?' will logically complete the series.

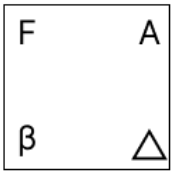


Ans

✗ 1.


✗ 2.


✗ 3.


✓ 4.


Q.67 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. 3 km to the south

✗ 2. 4 km to the south

✗ 3. 1 km to the south

✓ 4. 2 km to the south

Q.68 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

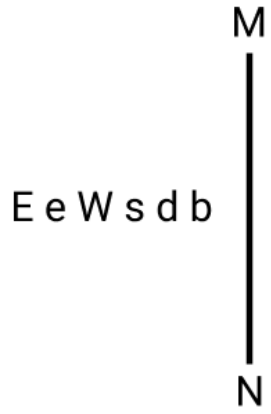
✓ 1. Both conclusions I and II follow

✗ 2. Only conclusion I follows

✗ 3. Neither conclusion I nor II follows

✗ 4. Only conclusion II follows

Q.69 Select the correct mirror image of the given figure when the mirror is placed at line MN as shown.



Ans
1. d b ƨ W E e
2. d b ƨ E e W
3. d b ƨ W ɘ Ǝ
4. q p s W ɘ Ǝ

Q.70 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. 52
3. 54
4. 56

Section : **General Awareness**

Q.71 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. Specialised organelles that produce energy for the cell
3. Temporary projections of the cell membrane used for movement and feeding
4. Permanent structures on the surface of cells used for locomotion and respiration

Q.72 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 above
3. 25 years and below
4. 15 years and below

Q.73 Who among the following is the chairperson of the Parliamentary Affairs' Committee in India?

Ans
1. The Union Home Minister
2. The Union Finance Minister
3. The Prime Minister
4. The Union Defence Minister

Q.74 In the International System of Units (SI), which physical factor has the value 6.62607015×10^{-34} joule-hertz^{-1}?

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

Q.75 Who among the following Sultans of Delhi started a new department for the development of agriculture called Diwan-i Kohi?

Ans
1. Ghiyasuddin Balban
2. Shamsuddin Iltutmish
3. Muhammad-bin-Tughlaq
4. Alauddin Khalji

Q.76 From 1999 to 2000, how much percentage of working people in India were employed in the secondary sector?

Ans
1. 23.8%
2. 15.8%
3. 16.8%
4. 12.8%

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. Ivor Jenning
- ✘ 2. KC Wheare
- ✘ 3. Granville Austin
- ✘ 4. Morris Jones

Q.78 Which of the following articles is concerned with the Comptroller Auditor General of India?

Ans
- ✘ 1. Article 154
- ✘ 2. Article 142
- ✘ 3. Article 135
- ✔ 4. Article 148

Q.79 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. 3 years
- ✘ 2. 5 years
- ✔ 3. 7 years
- ✘ 4. 10 years

Q.80 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. 5 years
- ✘ 2. 10 years
- ✘ 3. 2 years
- ✔ 4. 7 years

Q.81 What is the SI unit of luminous intensity?

Ans
- ✘ 1. watt
- ✘ 2. kelvin
- ✘ 3. joules
- ✔ 4. candela

Q.82 India's first artificial satellite, _____, was launched in space by Indian Space Research Organisation.

Ans
- ✘ 1. ScatSat
- ✔ 2. Aryabhatta
- ✘ 3. Bhaskara
- ✘ 4. Resourcesat

Q.83 The 4th edition of Bilateral Exercise between Indian Navy and Bangladesh Navy, BONGOSAGAR-23 was held in the month of _____ in 2023.

Ans
- ✘ 1. August
- ✘ 2. May
- ✔ 3. November
- ✘ 4. January

Q.84 How does the Reserve Bank of India (RBI) utilise the repo rate to control inflation?

Ans
- ✘ 1. Decreasing the repo rate to increase the money supply, encouraging spending and investment
- ✘ 2. Maintaining a constant repo rate regardless of inflation levels
- ✔ 3. Increasing the repo rate and making borrowing more expensive for banks, thereby reducing the money supply in the economy
- ✘ 4. Increasing the repo rate to directly lower the prices of goods and services

Q.85 During the second quarter of the 14th century, three independent kingdoms were established in South India. Which of the following was NOT part of it?

Ans
- ✘ 1. Ma'bar
- ✘ 2. Bahmani
- ✘ 3. Vijaynagara
- ✔ 4. Daulatabad

Q.86 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. World Bank
- ✘ 3. Asian Development Bank
- ✔ 4. Universal Services Obligation Fund

Q.87 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. Damodar Hari Chapekar
- ✘ 4. Sardar Vallabhbhai Patel

Q.88 Silver medalist at the Paris Paralympic games 2024, Thulasimathi Murugesan is associated with which of the following games?

Ans
- ✗ 1. Athletics
- ✗ 2. Archery
- ✗ 3. Shooting
- ✓ 4. Badminton

Q.89 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. By increasing dependence on chemical fertilisers and pesticides
- ✗ 3. They restrict agricultural productivity by limiting the use of modern technologies
- ✓ 4. Through enhancing soil health, water conservation and biodiversity, leading to better long-term agricultural productivity and rural livelihoods

Q.90 Name the blue-fluorescent dye that can be used to stain living or fixed cells.

Ans
- ✗ 1. BODIPY
- ✗ 2. Fuchsin
- ✗ 3. Phalloidin
- ✓ 4. DAPI

Q.91 The Central Government introduced the Oilfields (Regulation and Development) Amendment Bill, 2024 in the Lok Sabha in August 2024 to delink petroleum operations from _____.

Ans
- ✗ 1. forestry
- ✗ 2. agriculture
- ✓ 3. mining
- ✗ 4. maritime activities

Q.92 Who among the following wrote the book, 'The Inheritance of Loss'?

Ans
- ✗ 1. Rajiv Malhotra
- ✗ 2. Alka Joshi
- ✗ 3. Amitav Ghosh
- ✓ 4. Kiran Desai

Q.93 What is the scientific name of 'Eri Silkworm', one of the most exploited, domesticated and commercial non-mulberry silkworms?

Ans
- ✗ 1. Bombyx mori
- ✗ 2. Morus alba
- ✗ 3. Antheraea mylitta
- ✓ 4. Philosamia ricinii

Q.94 Kupagal, a Neolithic site, is located in_____.

Ans
- ✗ 1. Kerala
- ✗ 2. Telangana
- ✗ 3. Andhra Pradesh
- ✓ 4. Karnataka

Q.95 Which city won the Smart Cities India Award 2020?

Ans
- ✓ 1. Surat
- ✗ 2. Bengaluru
- ✗ 3. Pune
- ✗ 4. Varanasi

Q.96 Who among the following national leaders founded the Forward Block in the year 1939?

Ans
- ✗ 1. Jawahar Lal Nehru
- ✓ 2. Subhash Chandra Bose
- ✗ 3. Abul Kalam Azad
- ✗ 4. Pandit Govind Ballabh Pant

Q.97 1 erg is equal to _____.

Ans
- ✗ 1. 10^{7} J
- ✓ 2. 10^{-7} J
- ✗ 3. 4.186 J
- ✗ 4. 10^{-5} J

Q.98 The term 'Ghatam' refers to which percussion instrument commonly used in Carnatic music performances?

Ans
- ✗ 1. Cymbals
- ✗ 2. Tambourine
- ✗ 3. Drum
- ✓ 4. Pot

Q.99 Which of the following instruments is NOT commonly used in Hindustani classical music?

Ans
- ✔ 1. Ghatam
- ✘ 2. Sitar
- ✘ 3. Sarod
- ✘ 4. Veena

Q.100 Which of the following Acts is related to the establishment of High Courts in India?

Ans
- ✘ 1. Government of India Act, 1861
- ✘ 2. Constitution of India Act, 1945
- ✔ 3. Indian High Courts Act, 1861
- ✘ 4. Indian Councils Act, 1861

Q.101 Which of the following is the socio-religious festival of the Adi community in Arunachal Pradesh?

Ans
- ✘ 1. Chhath Puja
- ✘ 2. Rajgir dance festival
- ✔ 3. Solung festival
- ✘ 4. Bohag Bihu

Q.102 Serchhip, which recorded highest literacy in Census 2011, is a district in which of the following states?

Ans
- ✘ 1. Andhra Pradesh
- ✘ 2. Kerala
- ✘ 3. Rajasthan
- ✔ 4. Mizoram

Q.103 Who was named captain of the India's squad for T20I cricket series against Bangladesh played in October 2024?

Ans
- ✔ 1. Suryakumar Yadav
- ✘ 2. Rinku Singh
- ✘ 3. Hardik Pandya
- ✘ 4. Sanju Samson

Q.104 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 239B
- ✘ 3. Article 252
- ✘ 4. Article 239

Q.105 Which of the following states in India has initiated the TANWA project for women in Agriculture?

Ans
- ✘ 1. Assam
- ✘ 2. Goa
- ✔ 3. Tamilnadu
- ✘ 4. West Bengal

Q.106 Who among the following is known as the first sovereign ruler of the Delhi sultanate?

Ans
- ✘ 1. Ghaznavid Sultan Mahmud
- ✘ 2. Qutb al-Dın Aybak
- ✘ 3. Jalal al-Dın Fıruz Khalji
- ✔ 4. Shams al-Din Iltutmish

Q.107 Which of the following was a new introduction to the Advanced Transportation Management system upgraded in October 2023?

Ans
- ✘ 1. Vehicle Speed Detection System (VSDS)
- ✔ 2. Video Incident Detection and Enforcement System (VIDES)
- ✘ 3. Traffic Monitoring Camera System (TMCS)
- ✘ 4. Radio Frequency Identification (RFID)

Q.108 In July 2024, Robert Jerard Ravi became the new Chairman and Managing Director (CMD) of which of the following telecom companies?

Ans
- ✘ 1. Vodafone Idea Limited
- ✘ 2. Reliance Jio Infocomm
- ✔ 3. Bharat Sanchar Nigam Limited (BSNL)
- ✘ 4. Mahanagar Telephone Nigam Limited (MTNL)

Q.109 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. 1, 3, 2
- ✘ 2. 2, 3, 1
- ✘ 3. 3, 1, 2
- ✔ 4. 1, 2, 3

Q.110 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. Brokerage firms
- ✗ 2. Insurance sectors
- ✓ 3. Banking Institutions
- ✗ 4. Asset Management Companies(AMC)

Q.111 Which country held the G20 presidency from 1 December 2023 to 30 November 2024?

Ans
- ✗ 1. India
- ✗ 2. Indonesia
- ✗ 3. South Africa
- ✓ 4. Brazil

Q.112 Who was the chairman of the eighth five-year plan of India?

Ans
- ✓ 1. PV Narasimha Rao
- ✗ 2. Narendra Modi
- ✗ 3. Atal Bihari Vajpayee
- ✗ 4. Manmohan Singh

Q.113 Which of the following is a keystone species in the savanna ecosystem?

Ans
- ✗ 1. Giraffe
- ✗ 2. Zebra
- ✗ 3. Lion
- ✓ 4. Elephant

Q.114 In which year was the Purvanchal Expressway of Uttar Pradesh, connecting Lucknow and Ghazipur, inaugurated by the Prime Minister of India?

Ans
- ✗ 1. 2018
- ✓ 2. 2021
- ✗ 3. 2020
- ✗ 4. 2023

Q.115 Where was the 11th edition of the SAMPRITI military exercise conducted in 2023?

Ans
- ✗ 1. Chittagong, Bangladesh
- ✗ 2. Kolkata, India
- ✗ 3. Dhaka, Bangladesh
- ✓ 4. Umroi, India

Q.116 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. Brahmo Samaj
- ✓ 3. Theosophical Society
- ✗ 4. Ramakrishna Mission

Q.117 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. Austria
- ✗ 2. Hungary
- ✗ 3. Denmark
- ✓ 4. The Netherlands

Q.118 Which of the following is a characteristic feature of the tropical deciduous forests?

Ans
- ✓ 1. Trees shed leaves seasonally
- ✗ 2. Trees with large leaves
- ✗ 3. Dense canopy all year round
- ✗ 4. Sparse vegetation

Q.119 In which year was the Mission Poshan 2.0 scheme launched in India?

Ans
- ✗ 1. 2023
- ✗ 2. 2020
- ✓ 3. 2021
- ✗ 4. 2024

Q.120 The 'Soil Health Card' scheme involves all the following, EXCEPT:

Ans
- ✗ 1. providing a basis to address nutrient deficiencies in fertilisation practices
- ✗ 2. developing and strengthening the functioning of Soil Testing Laboratories
- ✓ 3. doubling of farmers' income
- ✗ 4. promotion of nutrient management practices and balanced use of fertilisers

2024/12/03-15:24:50

रेल भर्ती बोर्ड / RAILWAY RECRUITMENT BOARDS

सी ई एन आर पी एफ - ०१/२०२४ - CEN RPF - 01/2024

Community	OBC NCL
Test Center Name	iON Digital Zone iDZ 1 Chinamushidiwada
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 **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. 117 kmph
✓ 2. 96 kmph
✗ 3. 72 kmph
✗ 4. 86 kmph

Q.2 *The difference between the smallest and the largest fractions among* $\frac{3}{8}, \frac{5}{9}, \frac{26}{27}, \frac{15}{32}$ *is:*

Ans
✓ 1. $\frac{127}{216}$
✗ 2. $\frac{127}{219}$
✗ 3. $\frac{127}{214}$
✗ 4. $\frac{127}{213}$

Q.3 **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. 66.89
✗ 2. 66.78
✓ 3. 66.66
✗ 4. 66.79

Q.4 **Simplify the following:**

$[\{(-0.4)+(4.6)^2+(2.3)^2\}\div 5]-3.24$

Ans
- ✗ 1. 1.79
- ✗ 2. 1.93
- ✗ 3. 1.39
- ✓ 4. 1.97

Q.5 *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. $\frac{15}{24}$
- ✗ 2. $\frac{15}{25}$
- ✓ 3. $\frac{15}{26}$
- ✗ 4. $\frac{15}{29}$

Q.6 **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. 5
- ✗ 2. 7
- ✗ 3. 3
- ✓ 4. 4

Q.7 **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. 8363
- ✗ 2. 8441
- ✗ 3. 8404
- ✓ 4. 8400

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

Ans
- ✗ 1. 3617
- ✗ 2. 3609
- ✓ 3. 3607
- ✗ 4. 3608

Q.9 **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. Increases by 67.33%
- ✓ 3. Decreases by 64.16%
- ✗ 4. Decreases by 67.12%

Q.10 **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. ₹2,080
✘ 2. ₹1,845
✘ 3. ₹2,460
✘ 4. ₹1,698

Q.11 **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. 5.77
✘ 2. 2.15
✘ 3. 3.16
✔ 4. 3.33

Q.12 **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. 104 kmph
✘ 2. 73 kmph
✔ 3. 88 kmph
✘ 4. 126 kmph

Q.13 **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. 195
✘ 2. 205
✘ 3. 210
✘ 4. 185

Q.14 **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. 27.33
✘ 2. 29.33
✘ 3. 30.33
✔ 4. 28.33

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. 97184
✔ 2. 97185
✘ 3. 97180
✘ 4. 97183

Q.16 **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. 242
✔ 2. 392
✘ 3. 292
✘ 4. 442

Q.17 Find the value of $\left[(30 \div 5) \times \left\{\frac{30}{6} + \frac{19}{1} \times (4 - 3)\right\}\right]$

Ans
- ✔ 1. 144
- ✘ 2. 155
- ✘ 3. 132
- ✘ 4. 157

Q.18 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. 644.2
- ✘ 2. 642.9
- ✔ 3. 641.6
- ✘ 4. 638.5

Q.19 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.20 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. 22
- ✘ 2. 19
- ✘ 3. 21
- ✔ 4. 20

Q.21 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. 552
- ✘ 2. 561
- ✘ 3. 549
- ✘ 4. 556

Q.22 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. 30 kg
- ✘ 2. 36 kg
- ✘ 3. 34 kg
- ✔ 4. 32 kg

Q.23 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.

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

Ans
- ✘ 1. 65
- ✘ 2. 62
- ✔ 3. 66
- ✘ 4. 76

Q.24 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. 1
- ✘ 2. 2
- ✘ 3. 4
- ✘ 4. 3

Q.25 Which of the following fractions is the largest?

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

Ans
- ✘ 1. $\frac{14}{45}$
- ✘ 2. $\frac{34}{79}$
- ✘ 3. $\frac{3}{79}$
- ✔ 4. $\frac{5}{9}$

Q.26 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. 143962
- ✘ 2. 143958
- ✘ 3. 143960
- ✔ 4. 143961

Q.27 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.28 Find the area of polygon ABCDE (in square cm) if AE = 20 cm and AB = 15 cm; quadrilateral BCDE is a squa

Ans
- ✔ 1. 775 cm^2
- ✘ 2. 735 cm^2
- ✘ 3. 755 cm^2
- ✘ 4. 715 cm^2

Q.29 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.30 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.31 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. $9\frac{1}{3}$

✓ 3. $7\frac{1}{3}$

✗ 4. $6\frac{1}{3}$

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. 21

✗ 2. 20

✗ 3. 25

✓ 4. 23

Q.33 Which of the following ratio is smallest?

Ans

✗ 1. 22 : 56

✓ 2. 15 : 44

✗ 3. 29 : 48

✗ 4. 30 : 31

Q.34 Express the following as a vulgar fraction.

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

Ans

✗ 1. $4\frac{45}{11}$

✓ 2. $4\frac{5}{11}$

✗ 3. $4\frac{5}{99}$

✗ 4. $4\frac{42}{11}$

Q.35 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. 178750

✗ 2. 175500

✗ 3. 162500

✗ 4. 143000

Section : **General Intelligence and Reasoning**

Q.36 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. Sunday
✗ 2. Monday
✗ 3. Tuesday
✓ 4. Friday

Q.37 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.38 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. Four
✗ 2. One
✓ 3. Two
✗ 4. Three

Q.39 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. Mother's brother
✗ 2. Father's brother
✗ 3. Sister's husband
✗ 4. Daughter's son

Q.40 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. 24
✗ 2. 26
✗ 3. 25
✗ 4. 22

Q.41 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. 2
✗ 2. 4
✗ 3. 7
✗ 4. 9

Q.42 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. PR -14
✓ 2. QR -16
✗ 3. QT -16
✗ 4. PS -19

Q.43 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. 4
✗ 2. 2
✓ 3. 3
✗ 4. 5

Q.44 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. # = JDD, % = VNH
✗ 2. # = JHD, % = MJP
✓ 3. # = GID, % = VXS
✗ 4. # = LKD, % = VML

Q.45 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. QOQ 0
✗ 2. QIO 7
✗ 3. ROP 3
✗ 4. OUI 9

Q.46 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.)

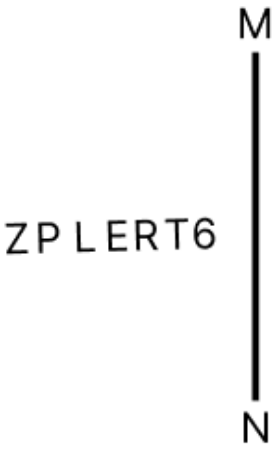
56, 63.4
84, 91.4

Ans
✓ 1. 71, 78.4
✗ 2. 95, 112.4
✗ 3. 42, 46.4
✗ 4. 33, 50.4

Q.47 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. 33.6
✗ 2. 33.8
✗ 3. 34.8
✗ 4. 34.6

Q.48 **Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.**



Ans

✗ 1. RT6EJ9Z

✓ 2. ƎTЯƎJ9Z

✗ 3. ƎTERJ9Z

✗ 4. ƎTЯƎZPL

Q.49 **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

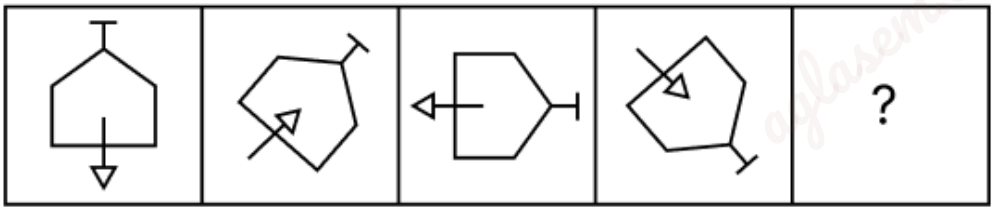
✓ 1. KO-RN

✗ 2. QU-XS

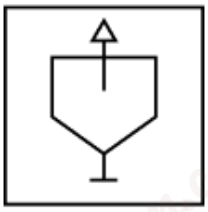
✗ 3. NR-UP

✗ 4. BF-ID

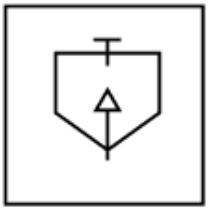
Q.50 Identify the figure given in the options which when put in place of the question mark (?) will logically complete the series.

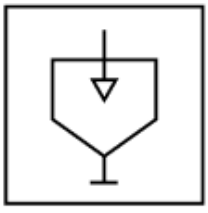


Ans

✔ 1.


✘ 2.


✘ 3.


✘ 4.


Q.51 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. Son's wife's sister's daughter

✘ 3. Wife's brother's sister

✘ 4. Wife's sister's daughter

Q.52 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. 0

✘ 2. 2

✘ 3. 3

✘ 4. 1

Q.53 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. ab

✘ 2. mo

✔ 3. ef

✘ 4. tu

Q.54 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. 1
- ✓ 2. 0
- ✗ 3. 2
- ✗ 4. 3

Q.55 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.56 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. 9 km towards East
- ✓ 2. 6 km towards North
- ✗ 3. 6 km towards South
- ✗ 4. 9 km towards North

Q.57 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

Q.58 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. 4
- ✗ 2. 3
- ✗ 3. 2
- ✗ 4. 1

Q.59 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. IOR
- ✓ 3. RWZ
- ✗ 4. PVY

Q.60 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. JG - DA
✗ 2. RO - LI
✗ 3. LI - FC
✓ 4. VX - RP

Q.61 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. Q
✓ 2. P
✗ 3. V
✗ 4. U

Q.62 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. # = MKI, % = NMJ
✗ 3. # = MUP, % = NKJ
✓ 4. # = WUP, % = NLG

Q.63 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.64 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?

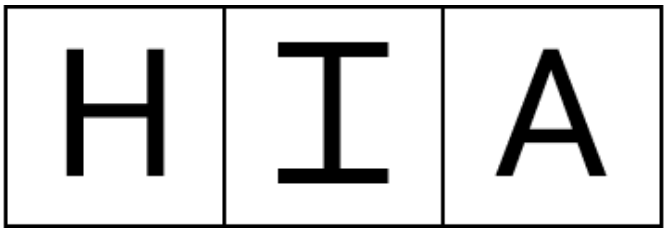
Ans
✓ 1. J
✗ 2. P
✗ 3. I
✗ 4. K

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. 155
✗ 2. 152
✗ 3. 144
✓ 4. 148

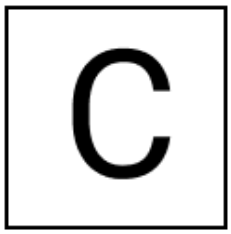
Q.66 The 3 figures given below are alike in a certain way as they share certain feature(s). Select the option that shares the same features as the given figures.



Ans

✗ 1.


✗ 2.


✗ 3.


✓ 4.


Q.67 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?

Ans

✗ 1. 9

✓ 2. 4

✗ 3. 2

✗ 4. 6

Q.68 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. Only conclusion (II) follows.

✗ 2. Only conclusion (I) follows.

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

✓ 4. Both conclusions (I) and (II) follow.

Q.69 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. 1 km towards north
- ✘ 3. 3 km towards south
- ✘ 4. 9 km towards north

Q.70 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. 12
- ✘ 2. 14
- ✔ 3. 10
- ✘ 4. 8

Section : General Awareness

Q.71 Who among the following was the Architect of the 'Victoria Memorial' in India?

Ans
- ✘ 1. Erbert Baker
- ✔ 2. William Emerson
- ✘ 3. George Gilbert Scott
- ✘ 4. Arthur Shoosmith

Q.72 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. Guttation
- ✘ 3. Wilting
- ✘ 4. Cavitation

Q.73 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. 2021
- ✔ 2. 2024
- ✘ 3. 2022
- ✘ 4. 2023

Q.74 Who among the following is credited as the originator of the Kirana gharana, a prominent lineage in Hindustani classical music?

Ans
- ✘ 1. Pandit Vishnu Digambar Paluskar
- ✔ 2. Ustad Abdul Karim Khan
- ✘ 3. Ustad Allauddin Khan
- ✘ 4. Pandit Bhimsen Joshi

Q.75 Which of the following arguments is NOT in favour of globalisation?

Ans
- ✘ 1. It is enabled with advanced technology
- ✘ 2. It promises better future prospects for large industries of developing countries
- ✔ 3. It compromises the welfare of the people of the developing countries
- ✘ 4. It provides greater access to global markets

Q.76 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. President of India, Droupadi Murmu
- ✗ 2. Prime Minister of India, Narendra Modi
- ✗ 3. Union Minister of Women and Child Development, Annpurna Devi
- ✓ 4. Sports Minister of India, Anurag Thakur

Q.77 Which of the following is the Average propensity to save?

Ans
- ✗ 1. It is the consumption per unit income.
- ✓ 2. It is the savings per unit of income.
- ✗ 3. It is the change in saving per unit change in income.
- ✗ 4. It is the change in consumption per unit change in income.

Q.78 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. Food and Agriculture Organization
- ✓ 2. International Monetary Fund
- ✗ 3. United Nations Children's Fund
- ✗ 4. World Health Organization

Q.79 Which of the following Articles of the Indian Constitution deals with the extent of executive power of the Union?

Ans
- ✓ 1. Article 73
- ✗ 2. Article 78
- ✗ 3. Article 70
- ✗ 4. Article 61

Q.80 When was the Sadharan Brahmo Samaj established in British India?

Ans
- ✗ 1. 1875
- ✗ 2. 1868
- ✓ 3. 1878
- ✗ 4. 1830

Q.81 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. Bidar
- ✗ 2. Golconda
- ✗ 3. Ahmednagar
- ✓ 4. Bahmani

Q.82 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, Tribal Forestry and Wild Forestry
- ✗ 3. Urban Forestry, Semi Urban Forestry and Rural Forestry
- ✗ 4. Urban Forestry, Semi Urban Forestry and Wild Forestry

Q.83 Pala Rulers were primarily great patrons of which religion/sect?

Ans
- ✗ 1. Vaishnavism
- ✗ 2. Jainism
- ✗ 3. Shaivism
- ✓ 4. Buddhism

Q.84 What unique role does the Small Industries Development Bank of India (SIDBI) play in the growth of SMEs?

Ans
- ✗ 1. Regulating the pharmaceutical industry
- ✓ 2. Facilitating access to finance for small and medium enterprises
- ✗ 3. Granting educational loans
- ✗ 4. Providing direct funding to agricultural projects

Q.85 According to the ancient Indian history, Sulvasutras was related to which of the following?

Ans
- ✗ 1. Science
- ✗ 2. Architecture
- ✓ 3. Geometry
- ✗ 4. Economics

Q.86 In the Thar desert, the day temperature can soar up to 50°C, while at night, it can drop to as low as 15°C. Based on the statement, which of the following types of temperature variation is observed in the Thar desert?

Ans
- ✗ 1. Moderate variation
- ✗ 2. Minimal variation
- ✗ 3. Constant temperature
- ✓ 4. Extreme variation between day and night

Q.87 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. Kailash Satyarthi
- ✗ 2. Venkatraman Ramakrishnan
- ✗ 3. Amartya Sen
- ✗ 4. Abhijit Banerjee

Q.88 Dena bank was merged with which public sector bank?

Ans
- ✗ 1. State Bank of India
- ✗ 2. Indian Bank
- ✗ 3. Punjab National Bank
- ✓ 4. Bank of Baroda

Q.89 Which of the following statements is true with respect to cropping seasons in India?

Ans
- ✗ 1. 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.
- ✗ 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 largely coincides with the southwest monsoon under which tropical crops such as wheat, gram and mustard are cultivated.
- ✓ 4. Zaid is a short summer cropping season for cultivating watermelons, cucumbers, vegetables and fodder crops on irrigated lands.

Q.90 Which of the following is NOT a sub-scheme under the PRITHVI scheme of the Ministry of Earth Sciences?

Ans
- ✗ 1. Polar Science and Cryosphere Research (PACER)
- ✓ 2. Ocean Modelling Agenda (OMEGA)
- ✗ 3. Seismology and Geosciences (SAGE)
- ✗ 4. Atmosphere and Climate Research-Modelling Observing Systems and Services (ACROSS)

Q.91 Which of the following is the primary function of the cell membrane?

Ans
- ✗ 1. Providing structural support
- ✗ 2. Storing genetic information
- ✗ 3. Synthesising proteins
- ✓ 4. Regulating the passage of substances in and out of the cell

Q.92 **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. Malaysia

✘ 2. Thailand

✘ 3. China

✘ 4. Indonesia

Q.93 **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 improve the quality of roads and highways across the country

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

✔ 4.
To remove railway crossings from all national highways

Q.94 **What is the term used to describe the different forms of a gene?**

Ans

✘ 1. Phenotype

✘ 2. Genotype

✘ 3. Chromosome

✔ 4. Allele

Q.95 **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. online drug dealing

✘ 2. cyber security

✘ 3. artificial intelligence based chatbots

✔ 4. e-Commerce platforms

Q.96 **Which of the following is the main characteristic of the convergent plate boundary?**

Ans

✘ 1. Plates slide past each other horizontally.

✘ 2. Plates move in the same direction.

✘ 3. Plates move away from each other.

✔ 4. Plates come towards each other.

Q.97 **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.98 **Fort William College was founded by _____ to train the young British recruits to the civil services in India.**

Ans

✘ 1. Warren Hastings

✔ 2. Lord Wellesley

✘ 3. Lord Mayo

✘ 4. Lord Dalhousie

Q.99 **Who among the following was awarded with the prestigious International Astronautical Federation World Space Award in October, 2024?**

Ans

✔ 1. S Somanathan

✘ 2. P Veeramuthuvel

✘ 3. L Murugan

✘ 4. K Sivan

Q.100 From which coast, India Successfully carried out a test launch of tactical ballistic missile Prithvi-II on January 10, 2023?

Ans
- ✗ 1. West Bengal
- ✗ 2. Karnataka
- ✓ 3. Odisha
- ✗ 4. Gujarat

Q.101 Provisions of Directive Principles of State policy are under:

Ans
- ✗ 1. Articles 32-52
- ✗ 2. Articles 32-45
- ✓ 3. Articles 36-51
- ✗ 4. Articles 32-42

Q.102 Which of the following years is called the great divide year because of the all time low population of India?

Ans
- ✗ 1. 1931
- ✗ 2. 1911
- ✓ 3. 1921
- ✗ 4. 1941

Q.103 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.104 A UV light is passed from an optical fiber into air at an angle of 45° and the refractive index of the fiber is $\sqrt{2}$. The angle of refraction will be:

Ans
- ✓ 1. 90°
- ✗ 2. 30°
- ✗ 3. 60°
- ✗ 4. 0°

Q.105 Mahmud Gawan was granted the title of Chief of the Merchants or Malik-ut-Tujjar by _____.

Ans
- ✗ 1. Ahmad III
- ✗ 2. Bahman Shah
- ✓ 3. Humayun Shah
- ✗ 4. Muhammmad Shah

Q.106 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. Mandamus
- ✗ 2. Habeas Corpus
- ✓ 3. Certiorari
- ✗ 4. Prohibition

Q.107 Which of the following authorities constitute the Ethics Committee in the Rajya Sabha?

Ans
- ✗ 1. The President
- ✗ 2. The Prime Minister
- ✗ 3. the Speaker of the Lok Sabha
- ✓ 4. The Chairman of the Rajya Sabha

Q.108 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. March
- ✗ 2. September
- ✗ 3. August
- ✓ 4. May

Q.109 Which of the following is INCORRECT in relation to the Indian political system?

Ans
- ✓ 1. Presidential system of government
- ✗ 2. Parliamentary system of government
- ✗ 3. Secular state
- ✗ 4. Quasi federal system

Q.110 In which year did C Rajagopalachari voice the demand for a constituent assembly based on adult franchise?

Ans
- ✓ 1. 1939
- ✗ 2. 1938
- ✗ 3. 1940
- ✗ 4. 1937

Q.111 Which of the following names of 'slash and burn' agriculture is related to India?

Ans
- ✓ 1. Koman
- ✗ 2. Masole
- ✗ 3. Conuco
- ✗ 4. Roca

Q.112 Which of the following is NOT considered as technical agrarian reforms?

Ans
- ✗ 1. Scientific farm management practices
- ✗ 2. Mechanised means of cultivation
- ✗ 3. Use of insecticides and pesticides
- ✓ 4. Abolition of intermediaries

Q.113 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. Sanand, Gujarat
- ✗ 2. Muzaffarpur, Bihar
- ✗ 3. Khammam, Telangana
- ✗ 4. Bhilai, Chhattisgarh

Q.114 Earth's magnetism is caused by the:

Ans
- ✗ 1. Magnus effect
- ✗ 2. solar effect
- ✗ 3. Doppler effect
- ✓ 4. dynamo effect

Q.115 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. Hyderabad
- ✗ 2. Guwahati
- ✗ 3. Lucknow
- ✗ 4. Shillong

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 a component of privatisation?

Ans
- ✓ 1. Public management
- ✗ 2. Certain volume of Government control of PPP
- ✗ 3. Private ownership
- ✗ 4. Private control

Q.118 Who is credited with systematising the Hindustani Ragas under the 'Thaat' system?

Ans
- ✗ 1. Ustad Vilayat Khan
- ✓ 2. Pandit Vishnu Narayan Bhatkhande
- ✗ 3. Miyan Tansen
- ✗ 4. Pandit Jasraj

Q.119 In which of the following places was the Prarthana Samaj set up?

Ans
- ✗ 1. Nagpur
- ✓ 2. Bombay
- ✗ 3. Calcutta
- ✗ 4. Allahabad

Q.120 Which of the following Parts of the Indian constitution deals with District Judiciary of India?

Ans
- ✗ 1. III
- ✗ 2. IV
- ✗ 3. V
- ✓ 4. VI

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