



रेल भर्ती बोर्ड / RAILWAY RECRUITMENT BOARDS

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



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

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

- 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 chickoos were bought at ₹1410 per hundred and were sold at a profit of ₹860. Find the selling price (in ₹) per dozen of chickoos.

- 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, compounded 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 square.

- Ans
- ☒ 1. 775 cm²
 - ☐ 2. 735 cm²
 - ☐ 3. 755 cm²
 - ☐ 4. 715 cm²

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.
 $0.2\bar{3} + 0.2 + 4$

- 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.)

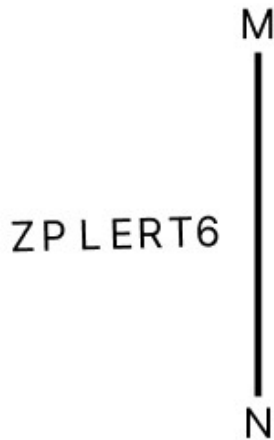
Ans ☒ 1. 33.6

☐ 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. RT6EJ 9Σ

☒ 2. 6T9EJ 9Σ

☐ 3. 6TERJ 9Σ

☐ 4. 6T9EZPL

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.)

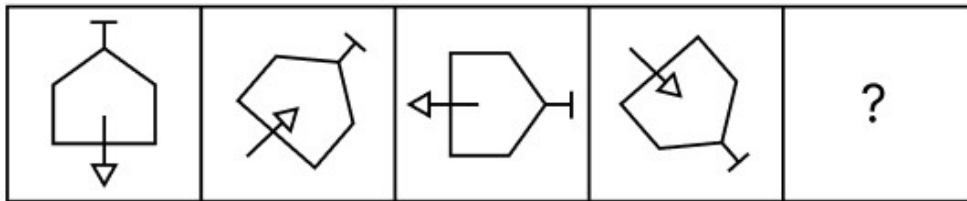
Ans ☒ 1. KO-RN

☐ 2. QU-XS

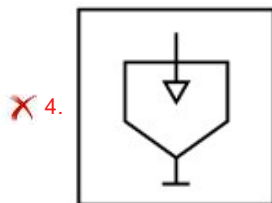
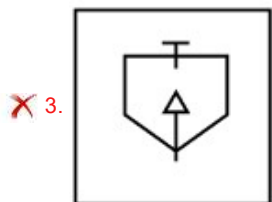
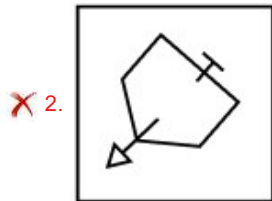
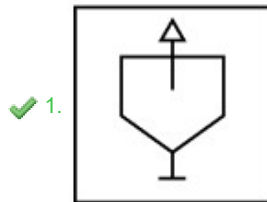
☐ 3. NR-UP

☐ 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



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 'x' and '÷' are interchanged?

$$30 \div 3 + 14 \times 2 - 6 = ?$$

- 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?

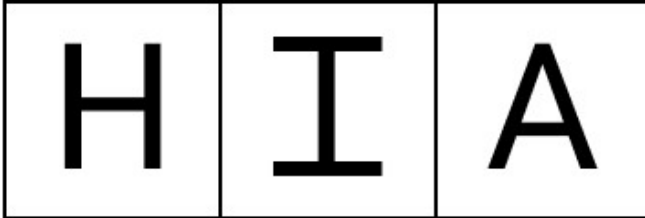
- Ans**
- ☒ 1. J
 - ☐ 2. P
 - ☐ 3. I
 - ☐ 4. K

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 ?

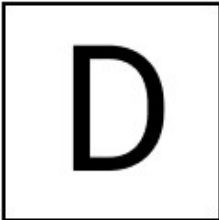
- Ans
- ☒ 1. 155
 - ☒ 2. 152
 - ☒ 3. 144
 - ☒ 4. 148

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

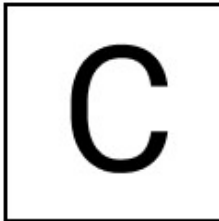
☒ 1.



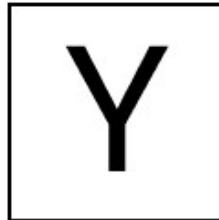
☒ 2.



☒ 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 $\text{pH}=\text{pK}_a$ in the Henderson-Hasselbalch equation.

- Ans**
- ☒ 1. $[\text{HA}]=[\text{A}^-]$
 - ☐ 2. $[\text{HA}]>[\text{A}^-]$
 - ☐ 3. $[\text{HA}]<[\text{A}^-]$
 - ☐ 4. $[\text{HA}]=\log[\text{A}^-]$

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. Muhammad 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