



रेल भर्ती बोर्ड / RAILWAY RECRUITMENT BOARDS

सी ई एन - ०१/२०२५ - CEN - 01/2025

सहायक लोको पायलट की भर्ती/ Recruitment of Assistant Loco Pilot



Test Date	13/02/2026
Test Time	9:00 AM - 10:00 AM
Subject	RRB ALP CBT 1

* 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 : RRB ALP

Q.1 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**
- ☒ A. PT - MR
 - ☐ B. EI - BF
 - ☐ C. NR - KO
 - ☐ D. JN - GK

Q.2 Shubh marks an article 40% above its cost price. He allows a single discount of d% on the marked price and still makes a profit of 10% on the cost price. Find the discount d%.

- Ans**
- ☐ A. 23%
 - ☐ B. $21\frac{2}{7}\%$
 - ☒ C. $21\frac{3}{7}\%$
 - ☐ D. 22%

Q.3 A shopkeeper fixes the marked price of an item 20% above its cost price. What percentage of discount should he offer to gain 2%?

- Ans**
- ☐ A. 12%
 - ☒ B. 15%
 - ☐ C. 18%
 - ☐ D. 17%

Q.4 If the interest earned during the 2nd year on a certain sum is ₹3072, and the rate of interest is 20% per annum compounded annually, then the sum is:

- Ans**
- ☐ A. ₹12965
 - ☒ B. ₹12800
 - ☐ C. ₹13545
 - ☐ D. ₹12055

Q.5 What sum (in ₹) will earn an interest of ₹480 in 2 years at 10% simple interest per year?

- Ans**
- ☐ A. 2600
 - ☐ B. 2550
 - ☐ C. 2200
 - ☒ D. 2400

Q.6 During a sale, 50% of the goods are sold at a 49% profit, 32% of the remaining goods are sold at a 45% profit and the still remaining goods are sold at a loss of 15%. If there is an overall profit of x%, then what is the value of x?

- Ans**
- ☐ A. 28.1%
 - ☒ B. 26.6%
 - ☐ C. 25%
 - ☐ D. 27%

Q.7 The LCM of the numbers 1.3, 7.6 and 0.13 is:

- Ans**
- ☐ A. 107
 - ☒ B. 98.8
 - ☐ C. 102
 - ☐ D. 100

Q.8 This question is based on the five, three-digit numbers given below.
(Left) 567 154 264 614 328 (Right)
(Example- 697 – First digit = 6, second digit = 9 and third digit = 7)
What will be the resultant if third digit of the highest number is added to the second digit of lowest number?

- Ans**
- ☐ A. 5
 - ☐ B. 6
 - ☒ C. 9
 - ☐ D. 8

Q.9 Ashutosh starts from Point A and drives 19 km towards West. He then takes a left turn, drives 9 km, turns left and drives 26 km. He then takes a left turn and drives 19 km. He takes a final left turn, drives 7 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**
- ☐ A. 10 km to the North
 - ☐ B. 11 km to the North
 - ☐ C. 11 km to the South
 - ☒ D. 10 km to the South

Q.10 A, G, H, P, S and Y 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 is numbered 6. Only three people live between Y and H, where Y lives below H. G lives on an odd-numbered floor and immediately above Y. S lives on one of the floors below A and on one of the floors above P. Who lives on floor numbered 5?

- Ans**
- ☐ A. Y
 - ☐ B. G
 - ☐ C. P
 - ☒ D. A

Q.11 What is the mode of the following data?

44, 45, 51, 50, 53, 54, 46, 40, 51, 46, 40, 42, 55, 42, 44, 55, 49, 44

- Ans ☒ A. 44
☐ B. 51
☐ C. 55
☐ D. 40

Q.12 When the one-third of a number is increased by 25, the result is 87. Find the sum of the digits of the original number.

- Ans ☐ A. 18
☒ B. 15
☐ C. 14
☐ D. 17

Q.13 A flask in the shape of a right circular cone of height 19 cm is filled with water. The water is poured in the right circular cylindrical flask whose radius is one-third of the radius of the base of the circular cone. Then, what is the height of the water in the cylindrical flask?

- Ans ☐ A. 83 cm
☐ B. 73 cm
☒ C. 57 cm
☐ D. 53 cm

Q.14 What will come in place of the question mark (?) in the following equation, if '+' and '÷' are interchanged and '-' and 'x' are interchanged?

$$243 + 9 \times 4 - 19 \div 200 = ?$$

- Ans ☐ A. 156
☐ B. 149
☐ C. 144
☒ D. 151

Q.15 Below are given two sets of numbers. In each set of numbers, a certain mathematical operation on first number results in the second number. Similarly, certain mathematical operation on second number results in the third number and so on. Which of the given options follows the same set of operations as in question?

(NOTE – A two/three digit number cannot be broken into individual digits for operations e.g. if 37 is followed by 10, the operation cannot be 3+7 as a two digit number cannot be broken into individual digits)

2 - 4 - 16 - 32 ; 3 - 6 - 36 - 72

- Ans ☐ A. 6 - 12 - 144 - 248
☒ B. 5 - 10 - 100 - 200
☐ C. 1 - 2 - 4 - 16
☐ D. 9 - 18 - 36 - 72

Q.16 Two triangles share the same base of 14 cm. The area of one triangle is 98 cm². If the area of the other triangle is twice that of the first, find the height of the second triangle.

- Ans ☐ A. 7 cm
☒ B. 28 cm
☐ C. 21 cm
☐ D. 14 cm

Q.17 If 1 is added to each odd digit and 2 is subtracted from each even digit in the number 3615487, which of the following digits will be second from the left?

- Ans**
- ☒ A. 4
 - ☐ B. 3
 - ☐ C. 2
 - ☐ D. 8

Q.18 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**
- ☐ A. LPS
 - ☒ B. QTW
 - ☐ C. GKN
 - ☐ D. BFI

Q.19 5% of a number is what percentage of 4% of the same number?

- Ans**
- ☐ A. 55.55%
 - ☐ B. 27.78%
 - ☒ C. 125%
 - ☐ D. 80%

Q.20 What should come in place of the question mark (?) in the given series based on the English alphabetical order?

QGY OFW MEU KDS ?

- Ans**
- ☐ A. IDQ
 - ☒ B. ICQ
 - ☐ C. ICR
 - ☐ D. IDR

Q.21 Which of the following is NOT an example of connective tissue?

- Ans**
- ☐ A. Cartilage
 - ☐ B. Blood
 - ☒ C. Skin
 - ☐ D. Bone

Q.22 Two sets of numbers are given below. In each set of numbers, a certain mathematical operation on the first number results in the second number. Similarly, certain mathematical operation 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 – A two/three digit number cannot be broken into individual digits for operations e.g. if 37 is followed by 10, the operation cannot be $3+7$ as a two digit number cannot be broken into individual digits)

18 - 23 - 33 - 165
39 - 44 - 54 - 270

- Ans**
- ☒ A. 50 - 55 - 65 - 325
 - ☐ B. 39 - 49 - 49 - 245
 - ☐ C. 28 - 39 - 48 - 144
 - ☐ D. 7 - 17 - 17 - 34

Q.23 Refer to the following letter series and answer the question that follows. Counting to be done from left to right only.

(Left) L W X W X J S I X D V H T T Z B R P C W B (Right)

How many such consonants are there, each of which is immediately preceded by a consonant and also immediately followed by a vowel?

- Ans**
- ☒ A. One
 - ☐ B. None
 - ☐ C. More than three
 - ☐ D. Two

Q.24 What should come in place of the question mark (?) in the given series?
214 201 190 181 174 ?

- Ans**
- ☐ A. 165
 - ☒ B. 169
 - ☐ C. 171
 - ☐ D. 167

Q.25 सोनल को सजावट का काम पूरा करने में पारुल से तीन गुना और स्वीटी से चार गुना अधिक समय लगता है। एक साथ मिलकर वे मिलकर इस काम को 6 दिनों में पूरा कर सकती हैं। पारुल को अकेले सजावट का काम पूरा करने में कितने दिन लगेंगे?

- Ans**
- ☐ A. 24
 - ☐ B. 48
 - ☐ C. 12
 - ☒ D. 16

Q.26 Which reaction is NOT a displacement reaction?

- Ans**
- ☐ A. $\text{Na} + \text{H}_2\text{O} \rightarrow \text{NaOH} + \text{H}_2$
 - ☒ B. $\text{HCl} + \text{NaOH} \rightarrow \text{NaCl} + \text{H}_2\text{O}$
 - ☐ C. $\text{Fe} + \text{CuSO}_4 \rightarrow \text{FeSO}_4 + \text{Cu}$
 - ☐ D. $\text{Zn} + \text{H}_2\text{SO}_4 \rightarrow \text{ZnSO}_4 + \text{H}_2$

Q.27 Two trains A and B are running in opposite directions with speeds of 66 km/hr and 60 km/hr, respectively. If the length of the train A is 240 m and they cross each other in 10 seconds, then find the length of the train B.

- Ans**
- ☒ A. 110 m
 - ☐ B. 120 m
 - ☐ C. 144 m
 - ☐ D. 150 m

Q.28 KNVG is related to QIZD in a certain way based on the English alphabetical order. In the same way, HMSE is related to NHWB. To which of the following is GIUH related, following the same logic?

- Ans**
- ☐ A. NDXE
 - ☐ B. NEYD
 - ☒ C. MDYE
 - ☐ D. MEXD

Q.29 Refer to the following number, symbol series and answer the question. Counting to be done from left to right only. All numbers are single-digit numbers.
(Left) \$ ^ < 9 * @ \# ? 2 6 @ 2 \ % ^ & / 2 8 % (Right)
How many such symbols are there each of which is immediately preceded by a number and also immediately followed by another symbol?

- Ans ☒ A. None
☒ B. Three
☒ C. Two
☒ D. One

Q.30 Seven boxes, A, B, C, D, E, F and G, are kept one over the other but not necessarily in the same order. A is kept third from the top. Only one box is kept between A and D but D is not kept on the top. Only two boxes are kept between C and D. Only one box is kept between B and E and E is immediately above G. Which box is second from the top?

- Ans ☒ A. E
☒ B. C
☒ C. G
☒ D. D

Q.31 If $x : y = 9 : 11$, then what is the value of $\frac{\left(\frac{x+1}{y+1}\right)}{\left(\frac{x^2-1}{y^2-1}\right)}$?

- Ans ☒ A. $\frac{11k-1}{3k+1}$
☒ B. $\frac{7k-1}{3k-1}$
☒ C. $\frac{11k-1}{9k-1}$
☒ D. $\frac{11k-1}{3k-1}$

Q.32 A tuning fork is struck harder. Which of the following increases as a result?

- Ans ☒ A. Frequency and amplitude
☒ B. Frequency only
☒ C. Neither frequency nor amplitude
☒ D. Amplitude only

Q.33 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 ☒ A. JQL
☒ B. MTP
☒ C. QXS
☒ D. OVQ

Q.34 What will come in the place of '?' in the following equation, if '+' and '-' are interchanged and 'x' and '÷' are interchanged?

$$22 \div 11 \times 11 + 50 - 32 = ?$$

- Ans ☒ A. 6
☒ B. 5
☒ C. 2
☒ D. 4

Q.35 Good governance means:

- Ans**
- ☒ A. Government control over the media
 - ☒ B. Transparent, accountable, and citizen-friendly administration
 - ☒ C. Powerful political leaders
 - ☒ D. Only strict laws

Q.36 Select the triad which follows the same pattern as that followed by the two triads given below. Both triads follow the same pattern.

JNS – NRW – RVA
LPU – PTY – TXC

- Ans**
- ☒ A. UYD – YCH – CGL
 - ☒ B. MQV – QUZ – VZE
 - ☒ C. UYD – YCI – CGL
 - ☒ D. RVA – VZE – ZDH

Q.37 Each of A, C, I, M, O, Q and W has an exam on a different day of a week starting from Monday and ending on Sunday of the same week.
A has an exam on Saturday. Only 4 people have exams between M and O, neither of whom has an exam on Monday. I has an exam immediately after Q, and W has an exam immediately before Q. O has an exam after I.
How many people have exams after I?

- Ans**
- ☒ A. 2
 - ☒ B. 1
 - ☒ C. 3
 - ☒ D. 4

Q.38 Which of the following best describes a heterogeneous mixture?

- Ans**
- ☒ A. It has a single composition.
 - ☒ B. Its components are visibly distinct.
 - ☒ C. It is a pure substance.
 - ☒ D. It cannot be separated physically.

Q.39 Anand purchased an item and incurred ₹82 as repair expenses. Subsequently, he sold it to Bharath with 25% profit. Eventually, Bharath sold the item for ₹2915, making 47% loss. What was the cost (in ₹) of the item for Anand just before selling it to Bharath?

- Ans**
- ☒ A. 4400
 - ☒ B. 4397
 - ☒ C. 4402
 - ☒ D. 4398

Q.40 The following data shows the ages of the patients admitted in a hospital during a year. What is the modal age of the patients (correct to 2 decimal places)?

Age (in years)	5 - 10	10 - 15	15 - 20	20 - 25	25 - 30	30 - 35	35 - 40
Number of Patients	4	10	8	2	12	6	3

- Ans**
- ☒ A. 33.51 years
 - ☒ B. 28.13 years
 - ☒ C. 29.12 years
 - ☒ D. 32.23 years

Q.41 In a certain code language, 'buy some food' is coded as 'lr tp nx' and 'food is tasty' is coded as 'nx ze jq'. How is 'food' coded in the given language?

- Ans
- ☒ A. nx
 - ☐ B. lr
 - ☐ C. jq
 - ☐ D. tp

Q.42 If an object is moved from beyond the center of curvature towards the focus in front of a concave mirror, the image _____.

- Ans
- ☐ A. becomes virtual and moves towards the mirror
 - ☐ B. remains the same size and position
 - ☒ C. becomes larger and moves away from the mirror
 - ☐ D. becomes smaller and moves closer to the mirror

Q.43 In a certain code language,
'M + N' means 'M is the brother of N',
'M - N' means 'M is the husband of N',
'M x N' means 'M is the sister of N' and
'M ÷ N' means 'M is the mother of N'.
Based on the above, how is A related to F if 'A - B ÷ C + D x E + F'?

- Ans
- ☒ A. Father
 - ☐ B. Father's brother
 - ☐ C. Mother's brother
 - ☐ D. Brother

Q.44 A and B can complete a job in 12 days and 18 days, respectively. If they work together for 6 days, how much of the job is left to be done?

- Ans
- ☐ A. $\frac{1}{9}$ of the job
 - ☒ B. $\frac{1}{6}$ of the job
 - ☐ C. $\frac{1}{2}$ of the job
 - ☐ D. $\frac{1}{7}$ of the job

Q.45 D is the father of E. B is the son of F. D is married to F. K is the son of R, and R is the father of F. How is R related to D?

- Ans
- ☐ A. Father
 - ☒ B. Wife's father
 - ☐ C. Wife's brother
 - ☐ D. Brother

Q.46 In a code language, 'HUGE' is coded as 82 and 'MERCY' is coded as 128. How will 'ASPECT' be coded in the same language?

- Ans
- ☒ A. 128
 - ☐ B. 88
 - ☐ C. 96
 - ☐ D. 116

Q.47 A sum of ₹3,540 is divided between Nisha, Sameer and Rupesh such that if their shares are decreased by ₹760, ₹190 and ₹280, respectively, then they are in the ratio of 10 : 2 : 9. What is the original share of Sameer?

- Ans
- ☐ A. ₹596
 - ☐ B. ₹137
 - ☒ C. ₹410
 - ☐ D. ₹468

Q.48 Each vowel in the word PROVIDE 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. Which of the following letters will be third from the left in the new number thus formed?

- Ans
- ☒ A. P
 - ☐ B. C
 - ☐ C. U
 - ☐ D. Q

Q.49 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 taps are bats.
All bats are mugs.

Conclusions:

(I) Some mugs are bats.
(II) All taps are mugs.

- Ans
- ☐ A. Only conclusion (II) follows.
 - ☐ B. Neither conclusion (I) nor (II) follows.
 - ☐ C. Only conclusion (I) follows.
 - ☒ D. Both conclusions (I) and (II) follow.

Q.50 IM 126 is related to LN 116 in a certain way. In the same way, KO 149 is related to NP 139. To which of the given options is RV 263, following the same logic?

- Ans
- ☐ A. TW 233
 - ☐ B. SX 243
 - ☐ C. TX 253
 - ☒ D. UW 253

Q.51 What should come in place of the question mark (?) in the given series based on the English alphabetical order?

GTN ZMG SFZ LYS ?

- Ans
- ☐ A. ERD
 - ☐ B. ERF
 - ☐ C. RDS
 - ☒ D. ERL

Q.52 During the propagation of sound in air, rarefaction is the region where:

- Ans
- ☐ A. particles are very close
 - ☒ B. density is minimum
 - ☐ C. wavelength becomes zero
 - ☐ D. pressure is high

Q.53 If x% of 600 = 12% of 250 + 18% of 300, then the value of x is:

- Ans
- ☐ A. 12
 - ☐ B. 18
 - ☐ C. 16
 - ☒ D. 14

Q.54 A question is followed by two statements numbered (I) and (II). You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and decide the appropriate answer.

Q. Four relatives – Leena, Mona, Pooja, and Reema – are of different ages.

Who is the second oldest?

(I) Mona is older than Leena but younger than Reema.

(II) Pooja is younger than Reema but older than Mona.

- Ans
- ☒ A. Data in both statements I and II together (and not statement I alone or statement II alone) are sufficient to answer the question
 - ☐ B. Data in Statement I alone is sufficient to answer the question while data in Statement II is not
 - ☐ C. Data in Statement II alone is sufficient to answer the question while data in Statement I is not
 - ☐ D. Data in both statements I and II together are NOT sufficient to answer the question

Q.55 Among five people named V, W, X, Y and Z, each have a certain age. X is four times the age of Y. V's age is equal to the age of X. Y is one-third the age of Z. W is half the age of V. If the age of Z is 12, what is the age of W?

- Ans
- ☒ A. 8
 - ☐ B. 6
 - ☐ C. 15
 - ☐ D. 4

Q.56 Each of G, J, M, O, R, S and T has an exam on a different day of a week, starting from Monday and ending on Sunday of the same week. S has an exam on Friday. Only two people have exams between G and S. Only four people have exams between M and G. J has an exam immediately after T. R does not have an exam on Monday. How many people have exams between R and O?

- Ans
- ☐ A. Two
 - ☐ B. Three
 - ☐ C. One
 - ☒ D. Four

Q.57 D, E, F, G, K, L and M are sitting around a circular table, facing the centre of the table. D sits fourth to the right of K. Only two people sit between L and G when counted from the left of L. F sits third to the left of E. M is an immediate neighbour of E and G. How many sit people between D and M when counted from the left of M?

- Ans
- ☐ A. Three
 - ☐ B. One
 - ☐ C. Two
 - ☒ D. Four

Q.58 18 is related to 321 following a certain logic. Following the same logic, 13 is related to 166. To which of the given options is 25 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 to/subtracting from/multiplying with 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

- Ans
- ☒ A. 622
 - ☐ B. 426
 - ☐ C. 422
 - ☐ D. 626

Q.59 A person drove at 53 kmph for 2.5 hours, then increased his speed by 28 kmph, and reached the destination in another hour. Find the average speed (in kmph) of the person during the entire journey.

- Ans**
- ☒ A. 59
 - ☒ B. 61
 - ☒ C. 60
 - ☒ D. 58

Q.60 In this question, a question is followed by two statements numbered (I) and (II). You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and decide the appropriate answer.
Among the five poles—R, A, M, E, and N—each having a different height, which one is the shortest?
(I) N is shorter than A. E is shorter than R.
(II) E is taller than N.

- Ans**
- ☒ A. Both statements I and II together are NOT sufficient to answer the question
 - ☒ B. Data in statement I alone is sufficient to answer the question while data in statement II is not
 - ☒ C. Both statements I and II together (and not statement I alone or statement II alone) are sufficient to answer the question
 - ☒ D. Data in statement II alone is sufficient to answer the question while data in statement I is not

Q.61 Find the mean proportional of 49 and 16.

- Ans**
- ☒ A. 36
 - ☒ B. 32
 - ☒ C. 28
 - ☒ D. 24

Q.62 Refer to the following number and symbol series and answer the question that follows.
Counting to be done from left to right only.
(Note: All numbers are single digit numbers only.)

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

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

- Ans**
- ☒ A. One
 - ☒ B. Two
 - ☒ C. Three
 - ☒ D. None

Q.63 Find the simplified value of the following expression.

$$\frac{(36 \div 3) \times (48 \div 6) - (16 \div 2)}{4}$$

- Ans**
- ☒ A. 23
 - ☒ B. 22
 - ☒ C. 21
 - ☒ D. 24

Q.64 In a circle, the diameter PQ is extended through Q to an external point X. Tangent XY is drawn to point Y on the circle. If XY = 15 cm and QX = 9 cm, then find the radius of the circle.

- Ans**
- ☒ A. 9 cm
 - ☒ B. 7 cm
 - ☒ C. 10 cm
 - ☒ D. 8 cm

Q.65 Which of the following is NOT a characteristic of muscular tissue?

- Ans**
- ☐ A. Voluntary muscles are also called skeletal muscles.
 - ☐ B. Muscles in limbs are voluntary muscles.
 - ☐ C. Muscular tissues are composed of muscle fibres.
 - ☒ D. Cardiac muscles are voluntary muscles.

Q.66 Refer to the following letter, symbol series and answer the question that follows.

Counting to be done from left to right only.

(Left) \$ T % K L € & € G R Y @ A W # Y © R B * O Y (Right)

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

- Ans**
- ☐ A. 5
 - ☐ B. 6
 - ☐ C. 3
 - ☒ D. 4

Q.67 Refer to the following letter, symbol series and answer the question.

Counting to be done from left to right only.

(Left) X # \$ L K M O > ? A S + T % @ A P & ? X Z R @ * + # I O ? & @
E R \$ Y U ? (Right)

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

- Ans**
- ☐ A. 3
 - ☐ B. 4
 - ☐ C. 1
 - ☒ D. 2

Q.68 Which of the following Indian states became the third to achieve full functional literacy under the ULLAS - Nav Bharat Saaksharta Karyakram (New India Literacy Programme) in June 2025?

- Ans**
- ☐ A. Gujarat
 - ☒ B. Tripura
 - ☐ C. Assam
 - ☐ D. Kerala

Q.69 A student's marks were incorrectly entered as 25 instead of 37. Due to this, the average marks of the class got decreased by $\frac{4}{3}$. What is the number of students in the class?

- Ans**
- ☐ A. 3
 - ☒ B. 9
 - ☐ C. 1
 - ☐ D. 19

Q.70 Which of the following is NOT lined by epithelial tissue?

- Ans**
- ☐ A. Skin
 - ☐ B. Kidney tubules
 - ☒ C. Blood
 - ☐ D. Lung alveoli

Q.71 PQ is a direct common tangent of two circles with centers, O_1 and O_2 , respectively, that contact each other externally at a point A. The circles have radii of 11 cm and 4 cm, respectively. Find the length of PQ.

- Ans
- ☒ A. $2\sqrt{11}$ cm
 - ☒ B. $3\sqrt{11}$ cm
 - ☒ C. $5\sqrt{11}$ cm
 - ☒ D. $4\sqrt{11}$ cm

Q.72 What should come in place of ? in the given series?

32 40 50 58 68 ?

- Ans
- ☒ A. 77
 - ☒ B. 78
 - ☒ C. 75
 - ☒ D. 76

Q.73 Aryan starts from point P and walks for 4 m towards the south. Then he takes a left turn and walks for 3 m. Then he takes one more left turn and walks for 8 m. Then he takes a right turn and walks for 2 m. Then he takes the last right turn and walks for 4 m before stopping at point Q. Towards which direction should he walk in order to reach point P again? (All turns are 90-degree turns only unless specified.)

- Ans
- ☒ A. East
 - ☒ B. North
 - ☒ C. South
 - ☒ D. West

Q.74 A, B, C, D, E, F and G are sitting around a circular table facing the centre. Only two people sit between C and B when counted from the right of C. Only two people sit between B and D. Only three people sit between C and F. G sits to the immediate left of E. How many people sit between A and B when counted from the left of A?

- Ans
- ☒ A. 1
 - ☒ B. 4
 - ☒ C. 2
 - ☒ D. 3

Q.75 Read the given statement(s) 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 statement(s).

Statements:

All cows are buttons.
All fingers are buttons.

Conclusions:

(I) No cows are fingers.
(II) Some fingers are cows.

- Ans
- ☒ A. Both conclusions (I) and (II) follow.
 - ☒ B. Only conclusion (I) follows.
 - ☒ C. Neither conclusion (I) nor (II) follows.
 - ☒ D. Only conclusion (II) follows.



रेल भर्ती बोर्ड / RAILWAY RECRUITMENT BOARDS

सी ई एन - ०१/२०२५ - CEN - 01/2025

सहायक लोको पायलट की भर्ती/ Recruitment of Assistant Loco Pilot



Test Date	16/02/2026
Test Time	9:00 AM - 10:00 AM
Subject	RRB ALP CBT 1

* 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 : RRB ALP

Q.1 What should come in place of ? in the given series?

39 51 68 90 117 ?

- Ans
- ☒ A. 150
 - ☒ B. 149
 - ☒ C. 148
 - ☒ D. 151

Q.2 HEVO is related to WTKD in a certain way based on the English alphabetical order. In the same way, PMDW is related to EBSL. To which of the given options is IFWP related, following the same logic?

- Ans
- ☒ A. XLOE
 - ☒ B. XEDS
 - ☒ C. XULE
 - ☒ D. XIOP

Q.3 Which of the following effects of smoking was observed in terms of respiration?

- Ans
- ☒ A. Promotion of cilia in upper respiratory tract
 - ☒ B. Destruction of cilia in upper respiratory tract
 - ☒ C. Promotion of cilia in lower respiratory tract
 - ☒ D. Destruction of cilia in lower respiratory tract

Q.4 In a code language, 'DEAR' is coded as 16 and 'ANGEL' is coded as 25. How will 'BEHAVIOR' be coded in the same language?

- Ans
- ☒ A. 64
 - ☒ B. 36
 - ☒ C. 18
 - ☒ D. 49

Q.5 The sum of the present ages of Bunty and Bubbly is 24 years. After 2 years from now, Bunty's age will be three times that of Bubbly's age. Bunty's present age (in years) is:

- Ans
- ☒ A. 28
 - ☒ B. 17
 - ☒ C. 22
 - ☒ D. 19

Q.6 A student's marks were incorrectly entered as 84 instead of 94. Due to this, the average marks of the class got decreased by $\frac{5}{4}$. What is the number of students in the class?

- Ans**
- ☐ A. 4
 - ☒ B. 8
 - ☐ C. 15
 - ☐ D. 17

Q.7 A boat running downstream covers a distance of 18 km in 3 hours while it covers the same distance upstream in 9 hours. The speed of the boat in still water is:

- Ans**
- ☐ A. 6 km/hr
 - ☒ B. 4 km/hr
 - ☐ C. 2 km/hr
 - ☐ D. 8 km/hr

Q.8 A, T, Z, R, Y and L are sitting around a circular table facing the centre. T sits second to the left of L. Only two people sit between Z and L when counted from the left of Z. A sits to the immediate left of Z and to the immediate right of R. Who is sitting second to the left of R?

- Ans**
- ☒ A. Y
 - ☐ B. Z
 - ☐ C. L
 - ☐ D. T

Q.9 In a certain code language,
'A + B' means 'A is the brother of B',
'A * B' means 'B is the father of A',
'A / B' means 'A is the sister of B' and
'A - B' means 'A is the mother of B'.
Based on the above, how is T related to Q if 'Q + L * Z + T + G'?

- Ans**
- ☐ A. Sister
 - ☐ B. Sister's son
 - ☐ C. Mother
 - ☒ D. Brother's son

Q.10 What should come in place of the question mark (?) in the given series based on the English alphabetical order?

GKB IMF KOJ MQN ?

- Ans**
- ☐ A. PSR
 - ☐ B. PTR
 - ☒ C. OSR
 - ☐ D. OSS

Q.11 If an object is placed between the centre of curvature (C) and the focus (F) of a concave mirror, what type of image will be formed?

- Ans**
- ☐ A. Diminished, real, and inverted
 - ☐ B. Highly enlarged and virtual
 - ☐ C. Same size, real, and upright
 - ☒ D. Enlarged, real, and inverted

Q.12 Refer to the given letter and symbol series and answer the question that follows.
Counting to be done from left to right only.
(Left) T O © L L \$ G £ L D V & & N * M @ J X © B K (Right)
How many such letters are there, each of which is immediately preceded by a letter and also immediately followed by a symbol?

- Ans** ☒ A. 4
☐ B. 3
☐ C. 6
☐ D. 5

Q.13 A, B and C together can complete a task in 20 days. A and B together can do it in 30 days, and B and C together can do it in 24 days. How long would B alone take to complete the entire work?

- Ans** ☐ A. 48 days
☒ B. 40 days
☐ C. 45 days
☐ D. 54 days

Q.14 Each of A, B, C, D, S, T and U has an exam on a different day of a week starting from Monday and ending on Sunday of the same week. Only two people have their exams before D. Only one person has the exam after U. Only three people have their exams between D and B. Only one person has the exam between C and S. A has the exam immediately before C. How many people have exams between T and C?

- Ans** ☐ A. One
☐ B. Three
☐ C. Four
☒ D. Two

Q.15 A, B, C, D, E, F and G are sitting around a circular table facing the centre. Only three people sit between A and C when counted from the left of A. Only three people sit between B and G when counted from the right of G. F sits to the immediate right of B. D is an immediate neighbour of G as well as C. How many people sit between C and F when counted from the left of F?

- Ans** ☐ A. 4
☐ B. 3
☒ C. 2
☐ D. 1

Q.16 A ball is dropped from a height and falls freely for 2 seconds. Its average speed during this time is: (Consider: acceleration due to gravity = 10 m/s^2)

- Ans** ☐ A. 20 m/s
☒ B. 10 m/s
☐ C. 5 m/s
☐ D. 15 m/s

Q.17 Anand purchased an item and spent ₹84 on its repair. He then sold it to Bharath at a profit of 25%. Later, Bharath sold the item for ₹4368, incurring a loss of 9%. What was Anand's cost (in ₹) of the item just before selling it to Bharath?

- Ans** ☐ A. 3838
☐ B. 3842
☐ C. 3839
☒ D. 3840

Q.18 Sumeet built a conical tent having a floor diameter of 28 m and a perpendicular height of 48 m. What was the length of a 10 m wide canvas that Sumeet needed for the purpose? [Use $\pi = 22/7$]

- Ans**
- ☐ A. 196 m
 - ☒ B. 220 m
 - ☐ C. 179 m
 - ☐ D. 200 m

Q.19 When a living plant cell loses water through osmosis, what happens to the cell contents?

- Ans**
- ☐ A. They remain unchanged
 - ☐ B. They dissolve
 - ☐ C. They swell and burst
 - ☒ D. They contract and move away from the cell wall

Q.20 In this question, a question is followed by two statements numbered (I) and (II). You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and decide the appropriate answer.
Among the five poles—I, N, C, H, and L—each having a different height, which pole is the shortest?

(I) L is taller than H.

(II) Only one pole is shorter than I. I is shorter than H but taller than N.

- Ans**
- ☐ A. Both statements I and II together (and not statement I alone or statement II alone) are sufficient to answer the question
 - ☐ B. Both statements I and II together are NOT sufficient to answer the question
 - ☒ C. Data in statement II alone is sufficient to answer the question while data in statement I is not
 - ☐ D. Data in statement I alone is sufficient to answer the question while data in statement II is not

Q.21 The price of a shirt is first increased by 10% and then increased by x%. If the overall percentage increase is 19%, what is the value of x (rounded off to the nearest integer)?

- Ans**
- ☐ A. 9
 - ☒ B. 8
 - ☐ C. 10
 - ☐ D. 11

Q.22 The gravitational potential energy of an object depends on what?

- Ans**
- ☐ A. Its acceleration only
 - ☐ B. Its velocity and mass
 - ☐ C. Its speed only
 - ☒ D. Its mass and height

Q.23 Match the columns.

Epithelial Tissue

- I Cuboidal Epithelium
- II Columnar Epithelium
- III Squamous Epithelium

Location

- A. Lining of intestine
- B. Skin
- C. Lining of kidney tubules

- Ans**
- ☐ A. I-A; II-B; III-C
 - ☐ B. I-A; II-C; III-B
 - ☒ C. I-C; II-A; III-B
 - ☐ D. I-B; II-C; III-A

Q.24 This question is based on the following words:
SUN RAT HIT BEG
In each of the words, each vowel 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. In how many letter-clusters thus formed, will no vowel appear?

Ans ☒ A. None
☒ B. Two
☒ C. Three
☒ D. One

Q.25 In which location was Exercise Cyclone 2025 conducted with Egypt in February?

Ans ☒ A. Jodhpur Desert Grounds, Rajasthan
☒ B. Mahajan Field Firing Range, Rajasthan
☒ C. Deesa Range, Gujarat
☒ D. Babina Field, Uttar Pradesh

Q.26 Refer to the following number, symbol series and answer the question that follows.
Counting to be done from left to right only. All numbers are single-digit numbers.
(Left) ^ @ 4 > ? & % 2 ^ 5 * 7 3 6 ^ ? 8 6 & * 5 (Right)
How many such numbers are there, each of which is immediately preceded by a symbol and also immediately followed by another number?

Ans ☒ A. Two
☒ B. One
☒ C. Four
☒ D. Three

Q.27 Refer to the following series and answer the question that follows. Counting to be done from left to right. All numbers are single-digit numbers only.
(Left) 3 8 5 4 3 7 6 5 5 3 2 6 9 1 9 7 5 4 2 4 6 7 (Right)
How many such odd digits are there, each of which is immediately preceded by an even digit and also immediately followed by an odd digit?

Ans ☒ A. THREE
☒ B. NONE
☒ C. ONE
☒ D. TWO

Q.28 Which of the following numbers is divisible by 11?

Ans ☒ A. 322431
☒ B. 432321
☒ C. 232144
☒ D. 231243

Q.29 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 ☒ A. BDF
☒ B. PRT
☒ C. HJL
☒ D. QSV

Q.30 What should come in place of the question mark (?) in the given series based on the English alphabetical order?
ACG IKO QSW YAE ?

- Ans**
- ☐ A. GMJ
 - ☐ B. GMI
 - ☒ C. GIM
 - ☐ D. GYT

Q.31 Two pipes, A and B, can fill a tank in 20 minutes and 30 minutes, respectively. If both pipes are opened together, the time taken to fill the tank is:

- Ans**
- ☐ A. 13 minutes
 - ☒ B. 12 minutes
 - ☐ C. 14 minutes
 - ☐ D. 15 minutes

Q.32 Select the set in which the numbers are related in the same way as are the numbers of 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 to/subtracting from/multiplying with 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

(153, 228, 303)
(129, 204, 279)

- Ans**
- ☐ A. (172, 237, 322)
 - ☐ B. (168, 247, 342)
 - ☐ C. (191, 266, 381)
 - ☒ D. (113, 188, 263)

Q.33 Each of Aditi, Aryan, Rahul, Kirti, Riya, Tanvi and Mia has an exam on a different day of a week starting from Monday and ending on Sunday of the same week. Aryan has an exam on Wednesday. Aditi has exam on the day immediately after Riya. Only two people have exams between Aryan and Riya. Rahul has exam on the day immediately after Kirti. Aryan has exam on the day immediately before Tanvi. How many people have exams after Mia?

- Ans**
- ☐ A. 5
 - ☒ B. 2
 - ☐ C. 4
 - ☐ D. 1

Q.34 Each vowel in the word PRODUCT 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. Which of the following letters will be third from the left?

- Ans**
- ☐ A. C
 - ☐ B. B
 - ☐ C. Q
 - ☒ D. P

Q.35 A question is followed by two statements numbered (I) and (II). You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and decide the appropriate answer.

Q. Four people – **Mehul, Nitin, Prakash, and Sandeep** – are sitting in a straight line facing north.

Who is sitting at the extreme left end?

(I) Nitin is sitting immediately to the right of Mehul.

(II) Prakash is sitting immediately to the left of Sandeep.

- Ans**
- ☒ A. Data in both statements I and II together are NOT sufficient to answer the question
 - ☐ B. Data in both statements I and II together (and not statement I alone or statement II alone) are sufficient to answer the question
 - ☐ C. Data in Statement II alone is sufficient to answer the question while data in Statement I is not
 - ☐ D. Data in Statement I alone is sufficient to answer the question while data in Statement II is not

Q.36 In a certain code language,
'A + B' means 'A is the mother 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 M related to P if 'M + N ÷ O × P - Q'?

- Ans**
- ☐ A. Mother's husband
 - ☐ B. Daughter
 - ☐ C. Brother's wife
 - ☒ D. Wife's father's mother

Q.37 Wasim starts from Point A and drives 24 km towards the south. He then takes a right turn, drives 24 km, turns right and drives 31 km. He then takes a right turn and drives 33 km. He takes a final right turn, drives 7 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**
- ☐ A. 6 km to the east
 - ☐ B. 8 km to the west
 - ☒ C. 9 km to the west
 - ☐ D. 7 km to the east

Q.38 If 'A' stands for '+', 'B' stands for 'x', 'C' stands for '+' and 'D' stands for '-', what will come in place of the question mark (?) in the following equation?

45 C 9 B 7 D 195 A 13 = ?

- Ans**
- ☒ A. 93
 - ☐ B. 94
 - ☐ C. 95
 - ☐ D. 90

Q.39 Aman earns ₹36,000 per month. He spends 30% on rent, 25% on food and 20% on education. He saves the rest. Find his total savings in one year.

- Ans**
- ☐ A. ₹1,04,400
 - ☐ B. ₹1,11,000
 - ☒ C. ₹1,08,000
 - ☐ D. ₹1,15,800

Q.40 The LCM of the numbers 0.9, 3.7 and 0.54 is:

- Ans**
- ☒ A. 99.9
 - ☐ B. 106
 - ☐ C. 105
 - ☐ D. 100

Q.41 How many members are elected to the Public Accounts Committee from Rajya Sabha?

Ans  A. 15

 B. 7

 C. 22

 D. 5

Q.42 The volume of a cylinder having diameter 18 cm and height 35 cm is:

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

Ans  A. 8910 cm³

 B. 8918 cm³

 C. 8902 cm³

 D. 8920 cm³

Q.43 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  A. RS-VW

 B. TZ-AB

 C. GH-KL

 D. AB-EF

Q.44 In a certain code language, 'HAST' is coded as '3586' and 'DAHS' is coded as '6357'. What is the code for 'D' in the given code language?

Ans  A. 5

 B. 6

 C. 3

 D. 7

Q.45 Select the pair which follows the same pattern as that followed by the two pairs given below. Both pairs follow the same pattern.

VQG : WNJ
DUN : ERQ

Ans  A. NPL : OLO

 B. IRI : JOL

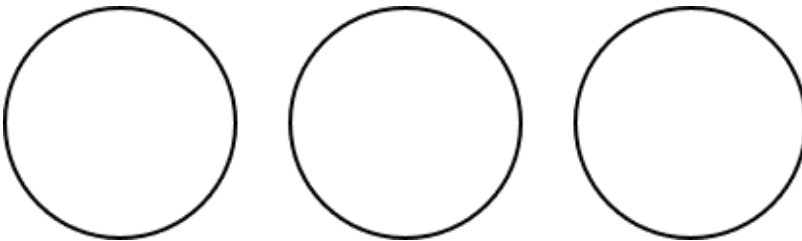
 C. PNQ : QKS

 D. KRG : LOI

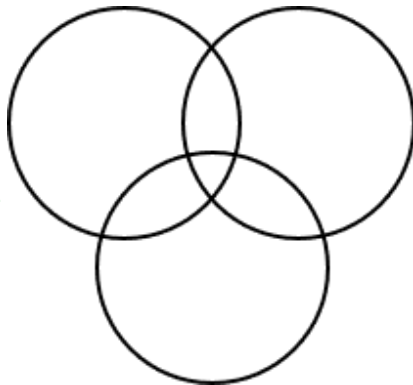
Q.46 Select the Venn diagram that best illustrates the relationship between the following classes.
Lawyers, Teachers, Parents

Ans

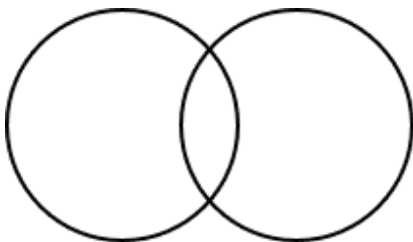
✗ A.



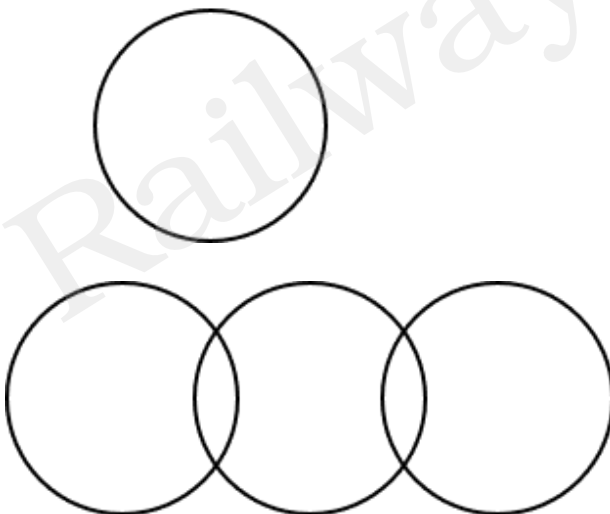
✓ B.



✗ C.



✗ D.



Q.47 Select the set in which the numbers are related in the same way as are the numbers of the following sets.

(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding / subtracting / multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)
(24,8,384)
(18,6,216)

Ans

✗ A. (15,9,240)

✓ B. (17,6,204)

✗ C. (13,10,130)

✗ D. (24,3,240)

Q.48 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**
- ☐ A. NO-ST
 - ☐ B. RS-WX
 - ☐ C. YZ-DE
 - ☒ D. MN-QU

Q.49 A, Q, N, L, R and K 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 is numbered 6. L lives on an even-numbered floor but not on the topmost floor. Only three people live between K and N. R lives immediately below Q. K lives immediately above L. A lives on the topmost floor. Who lives on floor number 3?

- Ans**
- ☐ A. K
 - ☐ B. A
 - ☐ C. R
 - ☒ D. Q

Q.50 To neutralise excess acidity in the stomach, one can take:

- Ans**
- ☐ A. Lemon juice
 - ☒ B. Antacids like $Mg(OH)_2$
 - ☐ C. HCl solution
 - ☐ D. Vinegar

Q.51 The marks obtained by 9 students of a class in mathematics are 76, 85, 47, 67, 85, 76, 47, 76, 67. What is the mode of these numbers?

- Ans**
- ☐ A. 85
 - ☐ B. 47
 - ☐ C. 67
 - ☒ D. 76

Q.52 Praveen and Sheenu are partners in a business. Praveen invests ₹35,000 for 9 months and Sheenu invests ₹42,000 for 10 months. Out of a profit of ₹31,570, find Sheenu's share.

- Ans**
- ☐ A. ₹18,020
 - ☐ B. ₹18,240
 - ☒ C. ₹18,040
 - ☐ D. ₹18,640

Q.53 Below are given two sets of numbers. In each set of numbers, a certain mathematical operation on the first number results in the second number. Similarly, certain mathematical operation 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 – A two/three digit number cannot be broken into individual digits for operations e.g. if 37 is followed by 10, the operation cannot be $3+7$ as a two digit number cannot be broken into individual digits)

10 - 5 - 25 - 30 ; 4 - 2 - 4 - 9

- Ans**
- ☐ A. 12 - 6 - 36 - 40
 - ☐ B. 7 - 49 - 54 - 60
 - ☐ C. 10 - 20 - 40 - 50
 - ☒ D. 8 - 4 - 16 - 21

Q.54 Among five people named V, W, X, Y and Z, each have a certain age. X is thrice the age of Y. The age of V is 3. Y is half the age of Z. W is twice the age of V. If Z is four times the age of W, what is the age of X?

- Ans**
- ☐ A. 38
 - ☐ B. 34
 - ☐ C. 40
 - ☒ D. 36

Q.55 If 1 is added to each odd digit and 2 is subtracted from each even digit in the number 7531468, how many digits will appear more than once in the new number thus formed?

- Ans**
- ☐ A. One
 - ☒ B. Three
 - ☐ C. None
 - ☐ D. Two

Q.56 A store marks up an item by 50% and then provides a discount of 20% on the marked price. If the final selling price is ₹2,400, what was the cost price (in ₹)?

- Ans**
- ☐ A. 1,800
 - ☐ B. 2,050
 - ☐ C. 2,100
 - ☒ D. 2,000

Q.57 A shopkeeper sells an item for ₹225.6 after giving two successive discounts of 90% and 50% on its marked price. Had he not given any discount, he would have earned a profit of 41%. What is the cost price (in ₹) of the item?

- Ans**
- ☐ A. 3,182
 - ☐ B. 3,204
 - ☐ C. 3,194
 - ☒ D. 3,200

Q.58 A faster train, 300 meters long, crosses a platform 600 meters in length in 40 seconds. A slower train, 450 meters long, takes 60 seconds to cross the same platform. Find the time it will take for the two trains to completely pass each other when traveling in opposite directions.

- Ans**
- ☒ A. 18.75 seconds
 - ☐ B. 18.18 seconds
 - ☐ C. 17.85 seconds
 - ☐ D. 17.58 seconds

Q.59 What will come in the place of '?' in the following equation, if '+' and '-' are interchanged and 'x' and '÷' are interchanged?

$$31 - 26 \times 1 \div 24 + 45 = ?$$

- Ans**
- ☐ A. 612
 - ☐ B. 608
 - ☐ C. 611
 - ☒ D. 610

Q.60 Yatin starts from Point A and drives 21 km towards East. He then takes a left turn, drives 15 km, turns left and drives 29 km. He then takes a left turn and drives 26 km. He takes a final left turn, drives 8 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**
- ☐ A. 10 km to the North
 - ☐ B. 9 km to the South
 - ☐ C. 9 km to the North
 - ☒ D. 11 km to the North

Q.61 What is the mode of the following data?

89, 76, 76, 88, 81, 81, 65, 90, 83, 89, 64, 63, 78, 64, 82, 87, 79, 89, 87, 65, 86, 77, 80, 70, 67

- Ans**
- ☐ A. 76
 - ☐ B. 64
 - ☐ C. 81
 - ☒ D. 89

Q.62 On a certain sum, if at the same rate of interest, for 2 years, the simple interest is ₹66 and compound interest is ₹67, then what is the sum (in ₹)?

- Ans**
- ☒ A. 1089
 - ☐ B. 1093
 - ☐ C. 1084
 - ☐ D. 1082

Q.63 Rajesh and Naresh start a business by investing ₹66,000 and ₹29,000, respectively. Rajesh invests his money for 2 months and Naresh for 12 months. At the end of the year, 5% of the total profit is ₹7,036. What is Naresh's share of the profit (in ₹)?

- Ans**
- ☐ A. 1,03,156
 - ☒ B. 1,02,022
 - ☐ C. 1,02,145
 - ☐ D. 1,03,148

Q.64 Select the triad which follows the same pattern as that followed by the two triads given below. Both triads follow the same pattern.

LHC – PLG – TPK
SOJ – WSN – AWR

- Ans**
- ☐ A. UQL – YUP – CYU
 - ☐ B. UHK – XTP – FBX
 - ☒ C. VRM – ZVQ – DZU
 - ☐ D. RNI – XTP – AVQ

Q.65 Refer to the following letter, symbol series and answer the question that follows.
Counting to be done from left to right only.
(Left) F Y \$ F O € Z # J © G * U N @ M \$ N © £ © & (Right)
How many such letter are there, each of which is immediately preceded by a symbol and also immediately followed by a symbol?

- Ans**
- ☒ A. 5
 - ☐ B. 4
 - ☐ C. 6
 - ☐ D. 7

Q.66 What should come in place of the question mark (?) in the given series?
145 132 120 109 99 90 ?

- Ans
- ☐ A. 78
 - ☐ B. 80
 - ☒ C. 82
 - ☐ D. 84

Q.67 Determine the arc length (in units) of a sector, if the angle of the sector with radius 6 units is 60° . (Take $\pi = \frac{22}{7}$)

- Ans
- ☐ A. $\frac{22}{7}$
 - ☒ B. $\frac{44}{7}$
 - ☐ C. $\frac{11}{7}$
 - ☐ D. $\frac{33}{7}$

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:

Some bugs are moths.
Some moths are parrots.

Conclusions:

(I) Some parrots are bugs.

(II) All moths are bugs.

- Ans
- ☐ A. Only conclusion (II) follows.
 - ☐ B. Only conclusion (I) follows.
 - ☐ C. Both conclusions (I) and (II) follow.
 - ☒ D. Neither conclusion (I) nor (II) follows.

Q.69 5 printers can print 9,000 pages in 6 hours. How many printers are needed to print 28,800 pages in 8 hours at the same rate?

- Ans
- ☐ A. 11
 - ☒ B. 12
 - ☐ C. 13
 - ☐ D. 10

Q.70 T, W, A, L, O and B 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 is numbered 6. A lives on an even-numbered floor. T lives immediately below A. Exactly one person lives between T and L. Exactly one person lives between W and L. W lives immediately above O. O does not live on the lowermost floor. Who lives immediately above L?

- Ans
- ☐ A. T
 - ☐ B. A
 - ☒ C. O
 - ☐ D. W

Q.71 If two lines are parallel and a transversal makes an angle of 65° with one line, what is the measure of the corresponding angle on the other line?

- Ans
- ☒ A. 65°
 - ☐ B. 115°
 - ☐ C. 25°
 - ☐ D. 55°

Q.72 What sum (in ₹) will earn an interest of ₹460 in 4 years at 10% simple interest per year?

- Ans
- ☐ A. 1300
 - ☒ B. 1150
 - ☐ C. 950
 - ☐ D. 1350

Q.73 Each vowel in the word TRASHED 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. Which of the following letters will be third from the left in the new group of letters thus formed?

- Ans
- ☐ A. Q
 - ☐ B. R
 - ☐ C. G
 - ☒ D. B

Q.74 Which of the following observations supports that matter is made of small particles?

- Ans
- ☐ A. Oil floats above the surface after gentle stirring.
 - ☐ B. Chalk powder remains visible even after mixing.
 - ☒ C. Sugar dissolves in water without change in level.
 - ☐ D. Sand settles at the bottom when mixed with water.

Q.75 Arvind bought an article for ₹x. He sold it to Biru at a loss of 30%. Biru spent ₹198 on its transportation and sold it to Minu at a profit of 50%. If Minu bought it for ₹1,053, then what is the value of x?

- Ans
- ☐ A. 671
 - ☐ B. 696
 - ☐ C. 715
 - ☒ D. 720



रेल भर्ती बोर्ड / RAILWAY RECRUITMENT BOARDS

सी ई एन - ०१/२०२५ - CEN - 01/2025

सहायक लोको पायलट की भर्ती/ Recruitment of Assistant Loco Pilot



Test Date	16/02/2026
Test Time	12:30 PM - 1:30 PM
Subject	RRB ALP CBT 1

* 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 : RRB ALP

Q.1 What should come in place of the question mark (?) in the given series based on the English alphabetical order?

CAU JHB QOI XVP ?

- Ans
- ☒ A. EDS
 - ☒ B. ERT
 - ☒ C. EWC
 - ☒ D. ECW

Q.2 If the frequency of a sound wave increases and the speed remains constant, its wavelength will:

- Ans
- ☒ A. increase
 - ☒ B. become zero
 - ☒ C. remain the same
 - ☒ D. decrease

Q.3 In a certain code language, 'SHAT' is coded as '4956' and 'ASHY' is coded as '3645'. What is the code for 'Y' in the given code language?

- Ans
- ☒ A. 5
 - ☒ B. 4
 - ☒ C. 3
 - ☒ D. 6

Q.4 If 'P' stands for '×', 'Q' stands for '÷', 'R' stands for '-' and 'S' stands for '+', then what will come in place of the question mark (?) in the following equation?

(12 P 3) Q 4 S 5 P 8 = ?

- Ans
- ☒ A. 53
 - ☒ B. 49
 - ☒ C. 41
 - ☒ D. 62

Q.5 Find the HCF of 24, 36 and 102.

- Ans
- ☐ A. 12
 - ☐ B. 8
 - ☐ C. 4
 - ☒ D. 6

Q.6 What should come in place of the question mark (?) in the given series based on the English alphabetical order?

BAJ VUD POX JIR ?

- Ans
- ☐ A. DFR
 - ☐ B. DRF
 - ☐ C. DLC
 - ☒ D. DCL

Q.7 Which type of cell has very small vacuoles?

- Ans
- ☐ A. Plant cell
 - ☐ B. Bacterial cell
 - ☐ C. Fungal cell
 - ☒ D. Animal cell

Q.8 The price of a product increases by 38% in the first year and then decreases by 20% in the second year. If the initial price of the product is ₹5,100, calculate the final price at the end of the second year.

- Ans
- ☐ A. ₹5,720.80
 - ☒ B. ₹5,630.40
 - ☐ C. ₹5,490.60
 - ☐ D. ₹5,570.20

Q.9 Two taps, A and B, can fill a cistern in 6 hours and 7.5 hours, respectively. Both the taps are opened for 2 hours and then B is turned off. How much time will A take to fill the remaining cistern?

- Ans
- ☐ A. 3.2 hours
 - ☐ B. 2 hours
 - ☐ C. $\frac{5}{3}$ hours
 - ☒ D. 2.4 hours

Q.10 A 628 m long train crosses a man walking at a speed of 10.1 km/h in the opposite direction in 12 seconds. What is the speed (in km/h) of the train?

- Ans
- ☐ A. 180.2
 - ☐ B. 180.6
 - ☐ C. 179.3
 - ☒ D. 178.3

Q.11 A rectangular piece of paper is 44 cm long and 89 cm wide. A cylinder is formed by rolling the paper along its length. Find the curved surface area of the cylinder.

- Ans
- ☐ A. 3902 cm²
 - ☐ B. 3961 cm²
 - ☐ C. 3931 cm²
 - ☒ D. 3916 cm²

Q.12 Refer to the following letter, symbol series and answer the question that follows.
Counting to be done from left to right only.
(Left) J @ € * Y % V % C I D % D H \$ K © L E £ M C (Right)
How many such symbol are there, each of which is immediately preceded by a letter
and also immediately followed by a letter?

- Ans ☒ A. 5
☒ B. 6
☒ C. 8
☒ D. 7

Q.13 The Directive Principles of State Policy in the Indian Constitution _____.

- Ans ☒ A. Cannot be questioned in courts
☒ B. Override Fundamental Rights in courts
☒ C. Are enforceable by courts
☒ D. Are not enforceable by any court

Q.14 A cistern has two inlets I_1 and I_2 which can fill it in 16 hours and 20 hours, respectively.
An outlet can empty the full cistern in 12 hours. If all the three pipes are opened
together in the empty cistern, how much time will they take to fill the cistern
completely?

- Ans ☒ A. $33\frac{6}{7}$ days
☒ B. $34\frac{2}{6}$ days
☒ C. $34\frac{2}{7}$ days
☒ D.
 $36\frac{5}{6}$ days

Q.15 A circle has a radius of 8 cm. A chord AB is drawn such that the distance from the
centre O to the chord is 6 cm. What is the length of AB?

- Ans ☒ A. $4\sqrt{15}$ cm
☒ B. $2\sqrt{7}$ cm
☒ C. $4\sqrt{7}$ cm
☒ D. $8\sqrt{7}$ cm

Q.16 Refer to the following letter series and answer the question that follows. Counting to be
done from left to right only.
(Left) N G T X R K H V A W Z W U B R E C F K L Z (Right)
How many such vowels are there, each of which is immediately preceded by a
consonant and also immediately followed by a consonant?

- Ans ☒ A. None
☒ B. One
☒ C. Three
☒ D. Two

Q.17 Refer to the following letter series and answer the question that follows. Counting to be done from left to right only.

(Left) X H O Z N M W I C G I U S O R Y I Y V I H W (Right)

How many such vowels are there, each of which is immediately preceded by a consonant and also immediately followed by a consonant?

- Ans
- ☒ A. 6
 - ☒ B. 5
 - ☒ C. 8
 - ☒ D. 7

Q.18 The area of a square is 6561 cm^2 . Its perimeter is equal to the perimeter of a regular hexagon. What is the area (in cm^2) of the hexagon?

- Ans
- ☒ A. $4348\sqrt{3}$
 - ☒ B. $4374\sqrt{3}$
 - ☒ C. 4338
 - ☒ D. 4404

Q.19 Seven boxes, A, B, C, D, E, F and G, are kept one over the other, but not necessarily in the same order. E is kept third from the bottom. G is kept immediately above E. Only two boxes are kept between G and A, but A is not kept in the lowermost position. B is kept immediately below A. Only two boxes are kept between C and F, and D is kept immediate below F. Which box is third from the top?

- Ans
- ☒ A. C
 - ☒ B. D
 - ☒ C. F
 - ☒ D. A

Q.20 Refer to the following number, symbol series and answer the question. Counting to be done from left to right only. All numbers are single-digit numbers.

(Left) 4 3 1 2 \$ 9 & 2 ? 4 @ 1 9 * 3 7 3 @ & < % (Right)

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

- Ans
- ☒ A. One
 - ☒ B. Three
 - ☒ C. Two
 - ☒ D. None

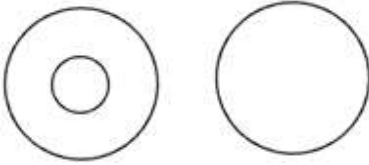
Q.21 The colour of scattered light depends on the size of the scattering particles. Very fine particles scatter mainly which colour of light?

- Ans
- ☒ A. Blue light
 - ☒ B. Red light
 - ☒ C. Green light
 - ☒ D. Yellow light

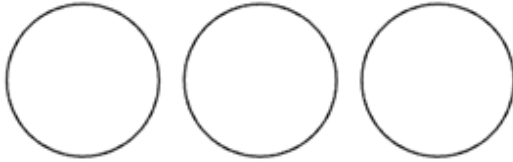
Q.22 Select the venn diagram that best illustrates the relationship between the following classes.
Rabbits, Ants, Lions

Ans

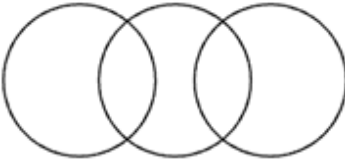
✗ A.



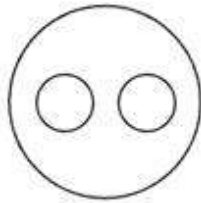
✓ B.



✗ C.



✗ D.



Q.23 What is the product when ethanol reacts with sodium?

Ans

✓ A. Sodium ethoxide and hydrogen gas evolve during the reaction with ethanol.

✗ B. Sodium hydroxide and oxygen gas evolve during the reaction with ethanol.

✗ C. Sodium oxide and water evolve during the reaction with ethanol only.

✗ D. Sodium carbonate and hydrogen gas evolve during the reaction with ethanol.

Q.24 From the top of a tower, the angles of depression of two objects, on the ground on the same side of it are observed to be 60° and 30° , respectively, and the height of the tower is 450 m. The distance between the objects (in m) is:

Ans

✗ A. $450\sqrt{3}$

✗ B. $150\sqrt{3}$

✗ C. $100\sqrt{3}$

✓ D. $300\sqrt{3}$

Q.25 Which organisation hosted the National Agro-RE Summit 2025?

Ans

✗ A. Indian Renewable Energy Development Agency

✓ B. National Solar Energy Federation of India

✗ C. NITI Aayog

✗ D. Ministry of Power

Q.26 The price of an article was ₹1600. It increased by 10% in the first year and by 30% in the second year. What is the price (in ₹) of the article after two years?

Ans

✓ A. 2288

✗ B. 2080

✗ C. 2248

✗ D. 1760

Q.27 Two sets of numbers are given below. In each set of numbers, certain mathematical operation(s) on the first number result(s) in the second number. Similarly, certain mathematical operation(s) on the second number result(s) in the third number and so on. Which of the given options follows the same set of operations as in the given sets? (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 – Operations on 13 such as adding to/subtracting from/multiplying with 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

6 – 36 – 72 – 144 ; 7 – 49 – 98 – 196

- Ans** ☒ A. 12 – 144 – 288 – 576
☐ B. 5 – 25 – 50 – 110
☐ C. 15 – 225 – 625 – 676
☐ D. 8 – 64 – 128 – 226

Q.28 A and B start a business by investing ₹40,000 and ₹60,000, respectively. At the end of the year, they earn a profit of ₹20,000. How much profit will A receive?

- Ans** ☒ A. ₹8,000
☐ B. ₹7,500
☐ C. ₹9,000
☐ D. ₹8,500

Q.29 A question is followed by two statements numbered (I) and (II). You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and select the most appropriate answer.

Question:

Among 5 poles, I, L, O, M and D each having a different height, which pole is the tallest?

Statements:

- (I) M is taller than L. L is taller than D.
(II) D is shorter than I but taller than O.

- Ans** ☒ A. Data in both statements I and II together are not sufficient to answer the question.
☐ B. Data in both statements I and II together (and not statement I alone or statement II alone) are sufficient to answer the question.
☐ C. Data in statement I alone is sufficient to answer the question while data in statement II is not.
☐ D. Data in statement II alone is sufficient to answer the question while data in statement I is not.

Q.30 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 angry are birds.

Some angry are pigs.

Conclusion (I): Some birds are pigs.

Conclusion (II): All pigs are birds.

- Ans** ☐ A. Only conclusion (II) follows
☐ B. Both conclusion (I) and (II) follow
☒ C. Only conclusion (I) follows
☐ D. Neither conclusion (I) and (II) follows

Q.31 What sum (in ₹) will earn an interest of ₹480 in 2 years at 5% simple interest per year?

- Ans** ☐ A. 4600
☐ B. 5000
☐ C. 4950
☒ D. 4800

Q.32 When an object is placed at infinity in front of a convex lens, the image formed is:

- Ans
- ☒ A. Real, inverted, and at the focus
 - ☐ B. Real, erect, and at 2F
 - ☐ C. Virtual, erect, and at infinity
 - ☐ D. Virtual, inverted, and at the focus

Q.33 Among five people named V, W, X, Y and Z, each has a different age. Z is older than Y but younger than W. X is older than V but younger than Y. Who among them is the second oldest?

- Ans
- ☐ A. W
 - ☐ B. X
 - ☒ C. Z
 - ☐ D. V

Q.34 If 'A' stands for '+', 'B' stands for 'x', 'C' stands for '+' and 'D' stands for '-', what will come in place of the question mark (?) in the following equation?

$$159 \text{ C } 60 \text{ A } 12 \text{ B } 11 \text{ D } 203 = ?$$

- Ans
- ☐ A. 10
 - ☐ B. 12
 - ☒ C. 11
 - ☐ D. 14

Q.35 If the mean of 15 numbers is 25 and one number 36.2 is removed from the numbers, then the mean of the remaining numbers is:

- Ans
- ☐ A. 20.8
 - ☐ B. 21.9
 - ☒ C. 24.2
 - ☐ D. 20.1

Q.36 Which of the following option is INCORRECT about plasma membrane?

- Ans
- ☐ A. It is outermost covering of the cell
 - ☐ B. Plasma membrane is made up of lipid and protein
 - ☐ C. It is selectively permeable
 - ☒ D. It is rigid in nature

Q.37 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 Friday. Only 2 people have an exam between R and Q. S has an exam immediately before U and P has an exam immediately after V. Only 2 people have an exam between T and U. Who has an exam on Monday?

- Ans
- ☐ A. S
 - ☐ B. P
 - ☒ C. T
 - ☐ D. U

Q.38 If $2x + 3y = 11$ and $xy = 2$, find the value of $4x^2 + 9y^2$.

- Ans
- ☐ A. 101
 - ☒ B. 97
 - ☐ C. 109
 - ☐ D. 117

Q.39 Vineet buys a juicer for ₹5,400. He wishes to gain a profit of 20% after offering a discount of 10% on the marked price to his customer. What should be the marked price (in ₹) for this purpose?

- Ans
- ☐ A. 7,150
 - ☐ B. 7,050
 - ☐ C. 7,100
 - ☒ D. 7,200

Q.40 BE 11 is related to AI 33 in a certain way. In the same way, HK 16 is related to GO 48. To which of the given options is SV 18 related, following the same logic?

- Ans
- ☐ A. TY 55
 - ☒ B. RZ 54
 - ☐ C. TZ 65
 - ☐ D. RY 55

Q.41 Refer to the following letter series and answer the question that follows. Counting to be done from left to right only.
(Left) O K A E K J E E K R Y U V J M W O F E O Y A (Right)
How many such vowel are there, each of which is immediately preceded by a consonant and also immediately followed by a vowel?

- Ans
- ☒ A. 3
 - ☐ B. 5
 - ☐ C. 4
 - ☐ D. 2

Q.42 Refer to the following series and answer the question (All numbers are single digit numbers only. Counting to be done from left to right.)
(Left) 9 1 7 5 1 1 4 7 2 1 9 5 4 8 5 6 6 8 7 6 8 1 5 7 6 2 8 (Right)
How many such odd numbers are there each of which is immediately preceded by an even number and also immediately followed by an even number?

- Ans
- ☐ A. 5
 - ☒ B. 3
 - ☐ C. 4
 - ☐ D. 2

Q.43 In a certain code language,

'A + B' means 'A is the son of B',
'A – B' means 'A is the brother of B',
'A × B' means 'A is the wife of B' and
'A ÷ B' means 'A is the father of B'.

Based on the above, how is T related to M if 'T × R – Y + G ÷ M'?

- Ans
- ☒ A. Brother's wife
 - ☐ B. Mother
 - ☐ C. Sister
 - ☐ D. Brother's daughter

Q.44 Based on the English alphabetical order, three of the following four letter-cluster pairs are alike in a certain way and thus form a group. Which 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
- ☐ A. XY–ZA
 - ☒ B. LM–MQ
 - ☐ C. NO–PQ
 - ☐ D. QR–ST

Q.45 Substances degraded easily by the biological processes are called as _____.

- Ans
- ☐ A. Soft material
 - ☒ B. Biodegradable
 - ☐ C. Hard material
 - ☐ D. Non-biodegradable

Q.46 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
- ☐ A. MJ - NK
 - ☒ B. TQ - JI
 - ☐ C. OL - PM
 - ☐ D. VS - WT

Q.47 On a certain sum, at the same rate of interest, the simple interest is ₹66 and compound interest is ₹69 for 2 years. What is the sum (in ₹)?

- Ans
- ☐ A. 358
 - ☒ B. 363
 - ☐ C. 356
 - ☐ D. 367

Q.48 A shopkeeper bought 50 mangoes at ₹10 each. He sold 30 mangoes at a profit of 20% and the remaining 20 mangoes at a loss of 10%. What is his overall profit or loss percentage?

- Ans
- ☐ A. 2% loss
 - ☐ B. 6% loss
 - ☐ C. 4% profit
 - ☒ D. 8% profit

Q.49 WURT is related to RPMZ in a certain way based on the English alphabetical order. In the same way, QNLG is related to LIGM. To which of the following is SPMH related, following the same logic?

- Ans
- ☒ A. NKHN
 - ☐ B. NLIM
 - ☐ C. MLHM
 - ☐ D. MKIN

Q.50 Kamal starts from point X and walks for 3 m towards west. Then he takes a left turn and walks for 8 m. Then he takes a left turn again and walks for 10 m. Then, again, he takes a left turn and walks for 2 m. Once more he takes a left turn and walks for 7 m and stops at a point Y. Towards which direction should he walk in order to reach point A again? (All turns are 90-degree turns only unless specified.)

- Ans
- ☐ A. West
 - ☐ B. East
 - ☒ C. North
 - ☐ D. South

Q.51 D, E, F, G, K, L and M are sitting around a circular table, facing the centre of the table. F sits third to the left of K. Only one person sits between K and D when counted from the left of D. Only two people sit between L and E when counted from the right of E. G is an immediate neighbour of L.
Who sits third to the right of M?

- Ans**
- ☐ A. G
 - ☐ B. D
 - ☐ C. L
 - ☒ D. F

Q.52 During a sale, 55% of the goods are sold at a 41% profit, 20% of the remaining goods are sold at a 19% profit and the rest are sold at a 21% loss. If there is an overall profit of x%, then what is the value of x?

- Ans**
- ☐ A. 15%
 - ☐ B. 10.5%
 - ☐ C. 12%
 - ☒ D. 16.7%

Q.53 A, G, H, P, S, and Y 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, until the topmost floor is numbered 6. H lives immediately above Y. Only two people live between P and Y. P lives on an odd-numbered floor. S lives immediately below G. Who lives on the topmost floor?

- Ans**
- ☐ A. H
 - ☐ B. P
 - ☒ C. A
 - ☐ D. S

Q.54 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**
- ☐ A. FG-HI
 - ☒ B. OP-IJ
 - ☐ C. ST-UV
 - ☐ D. WX-YZ

Q.55 A and B invested in a business in the ratio 4 : 5. They earned a profit of ₹54,000. They shared one-half of the profit equally and the other half in proportion to their investment. Find the profit share of B.

- Ans**
- ☒ A. ₹28,500
 - ☐ B. ₹25,750
 - ☐ C. ₹27,550
 - ☐ D. ₹26,650

Q.56 Each of G, J, M, O, R, S and T has an exam on a different day of a week, starting from Monday and ending on Sunday of the same week.
Only three people have exams between O and S. Only three people have exams between G and J. T has an exam on some day before R and on some day after M. Only J has an exam after S.
Who has an exam on Thursday?

- Ans**
- ☐ A. M
 - ☐ B. O
 - ☐ C. G
 - ☒ D. T

Q.57 A student's marks were incorrectly entered as 34 instead of 70. Due to this, the average marks of the class got decreased by $\frac{4}{3}$. What is the number of students in the class?

- Ans**
- ☒ A. 23
 - ☒ B. 27
 - ☒ C. 28
 - ☒ D. 32

Q.58 A, B, C, D, E and F are sitting around a circular table, facing the centre. D sits to the immediate right of E. B sits to the immediate right of F. C sits second to the left of E. What is the position of A with respect to C?

- Ans**
- ☒ A. Immediate right
 - ☒ B. Second to the left
 - ☒ C. Third to the left
 - ☒ D. Third to the right

Q.59 What will come in the place of '?' in the following equation, if '+' and '-' are interchanged and 'x' and '÷' are interchanged?

$$33 + 31 \times 31 \div 2 - 49 = ?$$

- Ans**
- ☒ A. 82
 - ☒ B. 81
 - ☒ C. 78
 - ☒ D. 80

Q.60 A shopkeeper marks a mobile phone 40% above its cost price. He then offers two successive discounts of 10% and 5% on the marked price. Find the profit percentage he makes on the cost price.

- Ans**
- ☒ A. 23%
 - ☒ B. 19.7%
 - ☒ C. 22.3%
 - ☒ D. 21%

Q.61 What is the mode of the following data?

86, 84, 71, 82, 82, 63, 84, 71, 70, 86, 88, 65, 71, 81, 87, 60, 60, 74, 78, 62, 75, 66, 68, 85, 72

- Ans**
- ☒ A. 71
 - ☒ B. 82
 - ☒ C. 84
 - ☒ D. 86

Q.62 Refer to the following letter series and answer the question that follows.
(Left) M P L T V H B U I N G F D C R E W X L M P O T Y R C D S W Z X D F (Right)
How many letters are there in the letter series between the letter which is sixth from the right end and sixth from left end of the series?

- Ans**
- ☒ A. 23
 - ☒ B. 21
 - ☒ C. 22
 - ☒ D. 20

Q.63 A and B start a business by investing ₹29,000 and ₹95,000, respectively. B withdraws his investment after 6 months, and then C joins the business with an investment of ₹67,000 for the remaining period of the year. If 15% of the total profit is ₹6,600, what is B's share of the profit?

- Ans**
- ✓ A. ₹19,000
 - ✗ B. ₹20,000
 - ✗ C. ₹20,500
 - ✗ D. ₹19,500

Q.64 In a code language, 'ONE' is coded as 9 and 'FOUR' is coded as 16. How will 'FIFTEEN' be coded in the same language?

- Ans**
- ✓ A. 49
 - ✗ B. 18
 - ✗ C. 24
 - ✗ D. 36

Q.65 CPWG is related to HLZE in a certain way based on the English alphabetical order. In the same way, IMTE is related to NIWC. To which of the following is JOWF related, following the same logic?

- Ans**
- ✗ A. PLZE
 - ✓ B. OKZD
 - ✗ C. OLYD
 - ✗ D. PKYE

Q.66 What should come in place of ? in the given series?

23 26 31 38 47 ?

- Ans**
- ✗ A. 60
 - ✓ B. 58
 - ✗ C. 59
 - ✗ D. 57

Q.67 In this question, a question is followed by two statements numbered (I) and (II). You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and decide the appropriate answer.

Among the five poles—R, A, M, E, and N—each having a different height, which one is the shortest?

(I) E is taller than only one pole. R is taller than A.

(II) E is taller than N.

- Ans**
- ✗ A. Both statements I and II together are NOT sufficient to answer the question
 - ✗ B. Data in statement I alone is sufficient to answer the question while data in statement II is not
 - ✓ C. Both statements I and II together (and not statement I alone or statement II alone) are sufficient to answer the question
 - ✗ D. Data in statement II alone is sufficient to answer the question while data in statement I is not

Q.68 What should come in place of the question mark (?) in the given series?
79 88 100 115 133 154 ?

- Ans**
- ✗ A. 170
 - ✗ B. 181
 - ✗ C. 175
 - ✓ D. 178

Q.69 The value of $8^2 + \sqrt{10^2} - 1\sqrt{16} - 5 =$

- Ans ☐ A. 62
☐ B. 66
☒ C. 65
☐ D. 73

Q.70 Akshita starts from Point A and drives 22 km towards North. He then takes a left turn, drives 17 km, turns left and drives 27 km. He then takes a left turn and drives 21 km. He takes a final left turn, drives 5 km and stops at Point P. How far (shortest distance) and towards which direction should he drive in order to reach Point A again? (All turns are 90-degree turns only, unless specified.)

- Ans ☐ A. 5 km to the east
☐ B. 5 km to the west
☐ C. 4 km to the east
☒ D. 4 km to the west

Q.71 A and D are married to each other. A is the mother of L. L is the husband of P. P is the mother of U. U is the sister of O. O is the only grandson of D. How is O related to L?

- Ans ☐ A. Father
☒ B. Son
☐ C. Father's father
☐ D. Daughter

Q.72 49 is related to 99 following a certain logic. Following the same logic, 73 is related to 147. To which of the given options is 26 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 ☒ A. 53
☐ B. 62
☐ C. 59
☐ D. 64

Q.73 When a drop of ink is placed in water, it spreads evenly without stirring. What does this demonstrate?

- Ans ☐ A. Particles are at rest
☐ B. Particles are heavy and settle down
☒ C. Particles of matter are constantly moving
☐ D. Water reacts with ink

Q.74 Two sets of numbers are given below. In each set of numbers, a certain mathematical operation on the first number results in the second number. Similarly, certain mathematical operation 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 – A two/three digit number cannot be broken into individual digits for operations e.g. if 37 is followed by 10, the operation cannot be 3+7 as a two digit number cannot be broken into individual digits)

42 - 45 - 270 - 265
25 - 28 - 168 - 163

- Ans ☐ A. 33 - 34 - 204 - 193
☐ B. 28 - 39 - 156 - 153
☒ C. 20 - 23 - 138 - 133
☐ D. 12 - 23 - 46 - 37

Q.75 Train A is 260 m long and crosses a platform of length 160 m in 28 seconds. Train B is 340 m long and passes a stationary man in 20 seconds. Both trains travel at constant speeds on parallel straight tracks. Find the time (in seconds) taken when the faster train completely overtakes the slower train while moving in the same direction?

- Ans**
- ☒ A. 250
 - ☒ B. 300
 - ☒ C. 360
 - ☒ D. 320

Railway BABA



रेल भर्ती बोर्ड / RAILWAY RECRUITMENT BOARDS

सी ई एन - ०१/२०२५ - CEN - 01/2025

सहायक लोको पायलट की भर्ती/ Recruitment of Assistant Loco Pilot



Test Date	16/02/2026
Test Time	4:00 PM - 5:00 PM
Subject	RRB ALP CBT 1

* 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 : RRB ALP

Q.1 If $6\sin y + \cos y = \sqrt{9}\sin y$, find the value of $\tan y$.

- Ans
- ☒ A. $-\frac{1}{3}$
 - ☐ B. $-\frac{1}{9}$
 - ☐ C. $\frac{1}{3}$
 - ☐ D. $-\frac{1}{10}$

Q.2 A question is followed by two statements numbered (I) and (II). You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and select the most appropriate answer.

Question:

Among 5 poles, I, L, O, M and D each having a different height, which pole is the tallest?

Statements:

- (I) O is shorter than D.
(II) M is taller than D.

- Ans
- ☒ A. Data in both statements I and II together are not sufficient to answer the question.
 - ☐ B. Data in both statements I and II together (and not statement I alone or statement II alone) are sufficient to answer the question.
 - ☐ C. Data in statement II alone is sufficient to answer the question while data in statement I is not.
 - ☐ D. Data in statement I alone is sufficient to answer the question while data in statement II is not.

Q.3 D, E, F, G, I, J and K are sitting around a circular table, facing the centre of the table. G is the immediate neighbour of both D and J. J sits third to the left of I. K sits to the immediate left of I. F is not an immediate neighbour of J. Who sits third to the left of E?

- Ans
- ☐ A. I
 - ☒ B. D
 - ☐ C. F
 - ☐ D. K

Q.4 If an object is placed between infinity and the pole (P) in front of a convex mirror, what type of image will be formed?

- Ans
- ☐ A. Real, inverted, and enlarged
 - ☐ B. Real, inverted, and diminished
 - ☒ C. Virtual, erect, and diminished (smaller in size)
 - ☐ D. Real, erect, and same size as the object

Q.5 Read the given statement(s) 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 statement(s).

Statements:

All kings are bombs.
No parrots are kings.

Conclusions:

(I) Some bombs are not parrots.
(II) Some bombs are kings.

- Ans
- ☐ A. Only conclusion (II) follows.
 - ☒ B. Both conclusions (I) and (II) follow.
 - ☐ C. Neither conclusion (I) nor (II) follows.
 - ☐ D. Only conclusion (I) follows.

Q.6 Simplify: $\frac{\sin A \cdot \tan A}{1 - \cos A} - \frac{\cos A \cdot \cot A}{1 - \sin A}$

- Ans
- ☒ A. $\sec A - \operatorname{cosec} A$
 - ☐ B. $\operatorname{cosec} A - \sec A$
 - ☐ C. $\cos A - \sin A$
 - ☐ D. $\sin A - \cos A$

Q.7 The double-layered covering of the nucleus is called as _____

- Ans
- ☐ A. Cell wall
 - ☒ B. Nuclear membrane
 - ☐ C. Chromatin wall
 - ☐ D. Plasma membrane

Q.8 An ottoman with side 50 cm is a magnified version of a 6-sided white cubical die with black circular spots from 1 to 6 engraved on its faces. If each engraved spot is a circle of diameter 10 cm, what is the total surface area (in cm^2 , rounded off to the nearest integer) of the cubical die that is not engraved?

- Ans
- ☐ A. 12422
 - ☒ B. 13351
 - ☐ C. 12354
 - ☐ D. 15330

Q.9 Select the set in which the numbers are related in the same way as are the numbers of the following sets.

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

(156,12,13)
(126,14,9)

- Ans
- ☐ A. (198,24,8)
 - ☐ B. (196,15,13)
 - ☒ C. (176,16,11)
 - ☐ D. (240,45,5)

Q.10 A student's marks were incorrectly entered as 23 instead of 59. Due to this, the average marks of the class got decreased by $\frac{9}{7}$. What is the number of students in the class?

- Ans**
- ☐ A. 35
 - ☒ B. 28
 - ☐ C. 36
 - ☐ D. 30

Q.11 M is the mother of O. O is the sister of J. T is the daughter of K. T is the sister of J. J is the father of B. B is the wife of F. How is M related to K?

- Ans**
- ☐ A. Brother
 - ☐ B. Husband
 - ☐ C. Sister
 - ☒ D. Wife

Q.12 AL8 is related to EQ40 in a certain way. In the same way, MF13 is related to QK65. To which of the given options is UO5 related, following the same logic?

- Ans**
- ☐ A. XT20
 - ☐ B. MT25
 - ☐ C. ZT20
 - ☒ D. YT25

Q.13 What is the mode of the following data?

89, 89, 64, 86, 64, 79, 81, 85, 82, 81, 75, 85, 82, 84, 61, 82, 81, 64, 74, 71, 61, 68, 77, 64, 79

- Ans**
- ☐ A. 82
 - ☒ B. 64
 - ☐ C. 89
 - ☐ D. 81

Q.14 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**
- ☒ A. PUZ
 - ☐ B. CHN
 - ☐ C. LQW
 - ☐ D. INT

Q.15 What will come in place of the question mark (?) in the following equation, if '+' and '÷' are interchanged and '-' and 'x' are interchanged?

$$368 + 46 \times 7 - 23 \div 183 = ?$$

- Ans**
- ☒ A. 30
 - ☐ B. 39
 - ☐ C. 33
 - ☐ D. 38

Q.16 Refer to the following letter series and answer the question that follows. Counting to be done from left to right only.
(Left) W U G E K L T Q J W U J V E S C V K J T C (Right)
How many such vowels are there, each of which is immediately preceded by a vowel and also immediately followed by a consonant?

- Ans** ☒ A. None
☐ B. More than three
☐ C. One
☐ D. Two

Q.17 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** ☐ A. DUP
☐ B. JAV
☒ C. XPJ
☐ D. QHC

Q.18 Which of the following substance groups represents the non-biodegradable substances?

- Ans** ☒ A. Plastic bubble pack, regular milk packets, medicine plastic bottles
☐ B. Spoilt food, vegetable peels, used tea leaves
☐ C. Grasses, spoilt food, vegetable peels
☐ D. Vegetable peels, flowers, paper

Q.19 Two positive integers have HCF = 12 and LCM = 924. If one of the numbers is 84, what is the other number?

- Ans** ☐ A. 72
☐ B. 96
☐ C. 180
☒ D. 132

Q.20 18 is related to 54 following certain logic. Following the same logic, 33 is related to 99. To which of the following is 27 related, following the same logic?
(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding / subtracting / multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

- Ans** ☐ A. 79
☐ B. 85
☒ C. 81
☐ D. 84

Q.21 Each of G, J, M, O, R, S, and T has an exam on a different day of a week, starting from Monday and ending on Sunday of the same week.
Only three people have exams between O and S. S has an exam on the last day of the week. Only one person has an exam between G and J. T has an exam immediately the day before M. R doesn't have an exam on Friday. J has an exam before G.
Who has an exam on Tuesday?

- Ans** ☐ A. O
☐ B. T
☐ C. G
☒ D. J

Q.22 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:

Some mugs are goats.
All goats are squares.

Conclusions:

(I) Some mugs are squares.

(II) Some squares are goats.

- Ans**
- ☒ A. Neither conclusion (I) nor (II) follows.
 - ☒ B. Both conclusions (I) and (II) follow.
 - ☒ C. Only conclusion (I) follows.
 - ☒ D. Only conclusion (II) follows.

Q.23 Seven boxes, T, U, V, W, X, Y and Z are kept one over the other but not necessarily in the same order. Only one box is kept above X. T is kept immediately above Y. U is placed immediately below Y. V is kept fifth from the bottom. W is kept on one of the positions below Z. What box is kept at the top?

- Ans**
- ☒ A. V
 - ☒ B. U
 - ☒ C. T
 - ☒ D. Z

Q.24 Tap A can empty a tank in 30 minutes. Tap B can empty it in 15 minutes. If both the taps operate simultaneously, how much time is needed to empty the tank?

- Ans**
- ☒ A. 10 minutes
 - ☒ B. 30 minutes
 - ☒ C. 20 minutes
 - ☒ D. 40 minutes

Q.25 YEVA is related to KQHM in a certain way based on the English alphabetical order. In the same way, UARW is related to GMDI. To which of the given options is EKBG related, following the same logic?

- Ans**
- ☒ A. QWCG
 - ☒ B. QNJU
 - ☒ C. QWNS
 - ☒ D. AQWE

Q.26 A shopkeeper offers two successive discounts of 20% and 30% on a product marked at ₹10,000. He still makes a profit of 12% on the cost price of the product. What is the cost price and selling price of the product?

- Ans**
- ☒ A. Cost price = ₹5,000, Selling price = ₹5,500
 - ☒ B. Cost price = ₹4,000, Selling price = ₹5,000
 - ☒ C. Cost price = ₹5,000, Selling price = ₹6,000
 - ☒ D. Cost price = ₹5,000, Selling price = ₹5,600

Q.27 Seven boxes, T, W, Z, K, R, U and H are kept one over the other but not necessarily in the same order. Only two boxes are kept below W. T is kept immediately below K. Only one box is kept between H and W. H is kept immediately below T. U is kept immediately above Z. Which box is placed immediately above W?

- Ans**
- ☒ A. R
 - ☒ B. Z
 - ☒ C. K
 - ☒ D. T

Q.28 Which of the following equations correctly relates the resistance (R) of a conductor to its length (l), area of cross-section (A), and resistivity (ρ)?

- Ans**
- ☐ A. $R = l/\rho A$
 - ☒ B. $R = \rho l/A$
 - ☐ C. $R = A/\rho l$
 - ☐ D. $R = \rho A/l$

Q.29 Which of the following ratios is the largest?

- Ans**
- ☐ A. 25 : 43
 - ☐ B. 18 : 31
 - ☒ C. 21 : 36
 - ☐ D. 17 : 30

Q.30 QT 3 is related to SS -16 in a certain way. In the same way, HK 7 is related to JJ -12. To which of the given options is NO 11 related, following the same logic?

- Ans**
- ☐ A. OM -8
 - ☐ B. PO -6
 - ☐ C. OO -6
 - ☒ D. PN -8

Q.31 Pankaj, Meera, and Ashok invest ₹62,000, ₹70,000, and ₹83,000, respectively, to start a business. At the end of the year, the total profit earned is ₹75,500. 14% of the total profit earned is given to charity and the rest is divided among them in the ratio of their profit. What will be the share of Ashok (in ₹)?

- Ans**
- ☐ A. 25,206
 - ☐ B. 24,954
 - ☒ C. 25,066
 - ☐ D. 25,183

Q.32 Each of A, C, I, M, O, Q and W has an exam on a different day of a week starting from Monday and ending on Sunday of the same week. M has an exam on Thursday. Exactly 4 people have their exams between O and A, neither of whom has an exam on Sunday. Q has an exam immediately before C. I does not have an exam on Friday. O does not have an exam after C. How many people have exams after A?

- Ans**
- ☐ A. 3
 - ☒ B. 1
 - ☐ C. 4
 - ☐ D. 2

Q.33 What should come in place of the question mark (?) in the given series based on the English alphabetical order?
ZWM URK PMI KHG ?

- Ans**
- ☐ A. FCL
 - ☒ B. FCE
 - ☐ C. KCE
 - ☐ D. FDF

Q.34 A man goes from point A to point B at a speed of 13 km/h and returns from B to A at a speed of 10 km/h using the same route. The average speed (in km/h) for the whole journey is:

- Ans
- ☒ A. $11\frac{7}{23}$
 - ☐ B. $11\frac{16}{23}$
 - ☐ C. $10\frac{22}{23}$
 - ☐ D. $12\frac{1}{23}$

Q.35 In a distribution, if the median is 42 and the mode is 36, then find the value of the mean.

- Ans
- ☐ A. 42
 - ☒ B. 45
 - ☐ C. 36
 - ☐ D. 40

Q.36 If 2 is subtracted from each even digit and 1 is added to each odd digit in the number 6785234, then how many digits will appear more than once in the new number?

- Ans
- ☒ A. Two
 - ☐ B. Four
 - ☐ C. Three
 - ☐ D. One

Q.37 Among five people named V, W, X, Y and Z, each have a certain age. Y is four times the age of X. V is two times the age of X. Y is five times the age of W. The age of W is 12. If Z is thrice the age of V, what is the age of Z?

- Ans
- ☒ A. 90
 - ☐ B. 75
 - ☐ C. 89
 - ☐ D. 85

Q.38 Refer to the following letter series and answer the question that follows. Counting to be done from left to right only.

(Left) K N C G I N F Z X I J X M N W T K K S V V (Right)

How many such consonants are there, each of which is immediately preceded by a vowel and also immediately followed by a consonant?

- Ans
- ☐ A. Three
 - ☒ B. Two
 - ☐ C. None
 - ☐ D. One

Q.39 When the one-third of a number is increased by 17, the result is 72. Find the sum of the digits of the original number.

- Ans
- ☐ A. 15
 - ☐ B. 13
 - ☐ C. 11
 - ☒ D. 12

Q.40 A, B, C, D, E, F and G are sitting around a circular table, facing the centre. F sits third to the left of A. C sits second to the left of D. Only A sits between E and C. B is not an immediate neighbour of F. How many people sit between D and E when counted from the right of E?

- Ans**
- ☒ A. 2
 - ☒ B. 3
 - ☒ C. 1
 - ☒ D. 4

Q.41 In a certain code language,

'A + B' means 'A is the daughter of B',
'A – B' means 'A is the father of B',
'A × B' means 'A is the son of B' and
'A ÷ B' means 'A is the sister of B'.

Based on the above, how is Q related to P if ' $Q \times M + V - J \div P$ '?

- Ans**
- ☒ A. Sister's husband
 - ☒ B. Father
 - ☒ C. Brother
 - ☒ D. Sister's son

Q.42 Which breed of cattle is primarily used for dairy purposes in India?

- Ans**
- ☒ A. Sahiwal
 - ☒ B. Ongole
 - ☒ C. Gir
 - ☒ D. Kankrej

Q.43 The salary of an employee is first increased by 20% and then again increased by 10%. What is the total percentage increase in the salary?

- Ans**
- ☒ A. 32%
 - ☒ B. 33%
 - ☒ C. 31%
 - ☒ D. 30%

Q.44 The ability of the eye lens to adjust its focal length to see objects clearly at different distances is called:

- Ans**
- ☒ A. Power of accommodation
 - ☒ B. Power of convergence
 - ☒ C. Range of vision
 - ☒ D. Persistence of vision

Q.45 In this question, a question is followed by two statements numbered (I) and (II). You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and decide the appropriate answer. Among the five poles—I, N, C, H, and L—each having a different height, which pole is the shortest?

(I) L is shorter than N. H is shorter than I.
(II) H is taller than L.

- Ans**
- ☒ A. Data in statement I alone is sufficient to answer the question while data in statement II is not
 - ☒ B. Both statements I and II together (and not statement I alone or statement II alone) are sufficient to answer the question
 - ☒ C. Data in statement II alone is sufficient to answer the question while data in statement I is not
 - ☒ D. Both statements I and II together are NOT sufficient to answer the question

Q.46 Where was the first Lokpal Day commemoration held in 2025?

- Ans
- ☐ A. Supreme Court Auditorium, New Delhi
 - ☒ B. Zorawar Auditorium, Manekshaw Centre, Delhi Cantt
 - ☐ C. Parliament House, New Delhi
 - ☐ D. Vigyan Bhawan, New Delhi

Q.47 What sum (in ₹) will earn an interest of ₹480 in 2 years at 6% simple interest per year?

- Ans
- ☐ A. 4150
 - ☐ B. 3800
 - ☒ C. 4000
 - ☐ D. 4200

Q.48 Evaluate $6.84\bar{1} - 2.69\bar{1}$.

- Ans
- ☐ A. $\frac{4035}{900}$
 - ☐ B. $\frac{3635}{909}$
 - ☒ C. $\frac{3735}{900}$
 - ☐ D. $\frac{3835}{1100}$

Q.49 Which of the following ratios is the least?

- Ans
- ☐ A. 7 : 13
 - ☐ B. 4 : 7
 - ☐ C. 5 : 9
 - ☒ D. 8 : 15

Q.50 During a sale, 48% of the goods are sold at a 31% profit, 25% of the remaining goods are sold at a 16% profit, and the rest are sold at a loss of 32%. If the overall profit is x%, what is the value of x?

- Ans
- ☐ A. 8
 - ☐ B. 7
 - ☐ C. 7.5
 - ☒ D. 4.48

Q.51 Gopal distributed ₹25200 between his two grandsons 13-year-old Akshay and 14-year-old Atul such that they get equal money when they turn 23 years old. Till then the money is in a bank getting compound interest at 10% per annum, compounded annually. How much (in ₹) Gopal deposited in the name of Atul?

- Ans
- ☐ A. 12000
 - ☐ B. 11750
 - ☐ C. 13550
 - ☒ D. 13200

Q.52 Raj had a cake in the shape of a sphere of radius 8 cm. He then dipped it in chocolate and kept it in the freezer. After some time, he observed that the chocolate formed a layer of thickness 2 cm over the cake. What is the percentage increase of the surface area of the cake after it is dipped in chocolate?

- Ans**
- ☒ A. 52.25%
 - ☒ B. 56.25%
 - ☒ C. 58.25%
 - ☒ D. 62.25%

Q.53 Nikhil sold his cycle to Ravi at a loss of 24%. Ravi spent ₹486 on its repairs and sold the cycle to Vikas for ₹2,875, thereby making a profit of 15%. Find the cost price of the cycle for Nikhil.

- Ans**
- ☒ A. ₹2,460
 - ☒ B. ₹2,540
 - ☒ C. ₹2,650
 - ☒ D. ₹2,710

Q.54 In a code language, 'AGENT' is coded as GAHTN and 'ADOPT' is coded as DARTP. How will 'DRINK' be coded in the same language?

- Ans**
- ☒ A. SEKNM
 - ☒ B. SDLKM
 - ☒ C. REKNL
 - ☒ D. RDLKN

Q.55 Refer to the following letter series and answer the question that follows. Counting to be done from left to right only.
(Left) O Q K K M I W K M F A F Y U T U B H T X S (Right)
How many such consonants are there, each of which is immediately preceded by a vowel and also immediately followed by a vowel?

- Ans**
- ☒ A. None
 - ☒ B. Three
 - ☒ C. One
 - ☒ D. Two

Q.56 The price of an article was ₹1600. It increased by 15% in the first year and by 20% in the second year. What is the price (in ₹) of the article after two years?

- Ans**
- ☒ A. 1920
 - ☒ B. 1840
 - ☒ C. 2106
 - ☒ D. 2208

Q.57 Two trains, A and B, of lengths 180 m and 220 m, respectively, are running on parallel tracks in opposite directions. They cross each other in 12 seconds. If the same two trains are moving in the same direction, they take 60 seconds for the faster train to completely cross the slower one. Find the speed (in km/h) of the faster train.

- Ans**
- ☒ A. 72
 - ☒ B. 80
 - ☒ C. 64
 - ☒ D. 48

Q.58 What should come in place of ? in the given series?

98 110 123 137 152 ?

- Ans
- ☒ A. 168
 - ☐ B. 169
 - ☐ C. 167
 - ☐ D. 170

Q.59 Which of the following articles in the Indian Constitution states that there shall be a Council of Ministers with the Prime Minister at the head to aid and advise the President who shall, in the exercise of his functions, act in accordance with such advice?

- Ans
- ☐ A. Article 84
 - ☒ B. Article 74
 - ☐ C. Article 70
 - ☐ D. Article 50

Q.60 A tank has three pipes A, B and C. A and B are inlet pipes while C is an outlet pipe. Pipe A can fill the tank in 15 minutes. Pipe B can fill it in 20 minutes. Pipe C can empty it in 30 minutes. The pipes are opened in the following cycle.

Minute 1: Only A

Minute 2: Only B

Minute 3: Only C

The cycle repeats till the tank is full. How much time would it take to completely fill the tank?

- Ans
- ☐ A. $27\frac{2}{3}$ minutes
 - ☐ B. 32 minutes
 - ☐ C. 36 minutes
 - ☒ D. $34\frac{1}{3}$ minutes

Q.61 When a positively charged alpha particle is passed through a thin gold foil, most of the particles pass straight through without deflection. Based on Thomson's model of the atom, which of the following best explains this observation?

- Ans
- ☐ A. The positive charge and mass are concentrated at the centre of the atom.
 - ☐ B. The atom contains a small, dense nucleus that repels alpha particles.
 - ☒ C. The positive charge is uniformly distributed throughout the atom, and electrons are embedded in it.
 - ☐ D. Electrons revolve around the nucleus in fixed orbits.

Q.62 Refer to the following letter, symbol series and answer the question that follows.

Counting to be done from left to right only.

(Left) N % Q E A L & M @ B & F > £ N H * # < L % P (Right)

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

- Ans
- ☐ A. Three
 - ☐ B. One
 - ☒ C. Two
 - ☐ D. None

Q.63 An electronics store offers two successive discounts on a laptop priced at ₹51,000. The first discount is 10%, and the second discount is 5%. What is the final price after both discounts are applied?

- Ans
- ☒ A. ₹43,605
 - ☐ B. ₹46,305
 - ☐ C. ₹44,305
 - ☐ D. ₹43,506

Q.64 What should come in place of the question mark (?) in the given series?
17 28 39 50 61 72 ?

- Ans**
- ☐ A. 81
 - ☐ B. 87
 - ☐ C. 85
 - ☒ D. 83

Q.65 This question is based on the five, three-digit numbers given below.
(Left) 627 458 347 491 567 (Right)
(Example- 697 – First digit = 6, second digit = 9 and third digit = 7)
What will be the resultant if the second digit of the second highest number is added to the third digit of the lowest number?

- Ans**
- ☐ A. 11
 - ☒ B. 13
 - ☐ C. 12
 - ☐ D. 14

Q.66 Refer to the following number, symbol series and answer the question that follows.
Counting to be done from left to right only. All numbers are single-digit numbers.
(Left) ? + > * 1 + 7 & ^ 1 ^ 7 2 8 ? & > # ? 4 @ (Right)
How many such numbers are there, each of which is immediately preceded by another number and also immediately followed by a symbol?

- Ans**
- ☐ A. Three
 - ☐ B. Four
 - ☒ C. One
 - ☐ D. Two

Q.67 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**
- ☐ A. OSV
 - ☐ B. GKN
 - ☒ C. LOS
 - ☐ D. TXA

Q.68 What happens at the boiling point of a liquid?

- Ans**
- ☐ A. Particles remain fixed and do not move at all.
 - ☐ B. Particles expand slightly and remain in liquid form.
 - ☐ C. Particles lose energy and move closer together.
 - ☒ D. Particles gain enough energy to change into vapour.

Q.69 Soham starts from Point A and drives 59 km towards west. He then takes a left turn, drives 67 km, turns left and drives 67 km. He then takes a left turn and drives 78 km. He takes a final left turn, drives 8 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**
- ☐ A. 10 km to the south
 - ☐ B. 13 km to the south
 - ☒ C. 11 km to the south
 - ☐ D. 12 km to the north

Q.70 Refer to the following series and answer the question (All numbers are single digit numbers only. Counting to be done from left to right.)
(Left) 3 7 2 6 2 7 3 8 7 3 7 6 4 2 4 5 4 9 5 7 7 2 4 (Right)
How many such even digits are there each of which is immediately preceded by an odd digit and also immediately followed by an even digit?

- Ans** ☒ A. Three
☐ B. None
☐ C. Two
☐ D. One

Q.71 In a certain code language, 'HATS' is coded as '2743' and 'AHUS' is coded as '7483'. What is the code for 'U' in the given code language?

- Ans** ☐ A. 4
☐ B. 7
☒ C. 8
☐ D. 3

Q.72 Namit starts from Point A and drives 26 km towards the east. He then takes a left turn, drives 25 km, turns left and drives 33 km. He then takes a left turn and drives 35 km. He takes a final left turn, drives 7 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** ☐ A. 11 km to the North
☒ B. 10 km to the North
☐ C. 12 km to the South
☐ D. 13 km to the South

Q.73 Select the set in which the numbers are related in the same way as are the numbers of 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 to/subtracting from/multiplying with 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

(29, 116, 348)
(22, 88, 264)

- Ans** ☐ A. (26, 104, 332)
☒ B. (17, 68, 204)
☐ C. (15, 60, 120)
☐ D. (21, 94, 252)

Q.74 If 'A' stands for '+', 'B' stands for 'x', 'C' stands for '+' and 'D' stands for '-', then what will come in place of the question mark (?) in the following equation?

75 A 3 D 14 C 9 B 4 = ?

- Ans** ☒ A. 47
☐ B. 59
☐ C. 63
☐ D. 31

Q.75 What should come in place of the question mark (?) in the given series based on the English alphabetical order?
HBU NHA TNG ZTM ?

- Ans** ☐ A. FXS
☐ B. FDR
☐ C. FSE
☒ D. FZS



रेल भर्ती बोर्ड / RAILWAY RECRUITMENT BOARDS

सी ई एन - ०१/२०२५ - CEN - 01/2025

सहायक लोको पायलट की भर्ती/ Recruitment of Assistant Loco Pilot



Test Date	17/02/2026
Test Time	9:00 AM - 10:00 AM
Subject	RRB ALP CBT 1

* 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 : RRB ALP

Q.1 What is the overall percentage increase in a number if it is increased successively by 10%, 20%, and 15%?

- Ans ☒ A. 45.8%
- ☒ B. 51.8%
- ☒ C. 41.8%
- ☒ D. 55.8%

Q.2 What should come in place of the question mark (?) in the given series based on the English alphabetical order?

CLW WFQ QZK KTE ?

- Ans ☒ A. RDF
- ☒ B. ENY
- ☒ C. ENT
- ☒ D. ECD

Q.3 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 its constituent digits. E.g. 13 – Operations on 13 such as adding / subtracting / multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed).

3 - 28
9 - 730

- Ans ☒ A. 7 - 342
- ☒ B. 1 - 2
- ☒ C. 5 - 124
- ☒ D. 8 - 645

Q.4 Mohit starts from Point A and drives 24 km towards the east. He then takes a right turn, drives 23 km, turns right and drives 26 km. He then takes a right turn and drives 27 km. He takes a final right turn, drives 2 km and stops at Point P. How far (shortest distance) and towards which direction should he drive in order to reach Point A again? (All turns are 90-degree turns only unless specified.)

- Ans ☒ A. 3 km to the South
- ☒ B. 4 km to the South
- ☒ C. 1 km to the North
- ☒ D. 2 km to the North

Q.5 A toy is in the form of a solid cone having a radius of 5 cm and a height of 12 cm. It is mounted on a frustum of a solid cone, with the toy's vertex pointed upwards, and the frustum's smaller base having a radius of 5 cm. The larger base of the frustum has a radius of 22 cm. The slant height of the frustum is 32 cm. What is the total surface area (in cm^2) of the toy?

- Ans**
- ☐ A. 1341π
 - ☐ B. 1431π
 - ☐ C. 1314π
 - ☒ D. 1413π

Q.6 A and B can do a piece of work in 10 days, B and C in 15 days and C and A in 20 days, C alone can do the work in:

- Ans**
- ☒ A. 120 days
 - ☐ B. 140 days
 - ☐ C. 150 days
 - ☐ D. 130 days

Q.7 Each vowel in the word CRUMBLE 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. Which of the following letters will be third from the left in the new group of letters thus formed?

- Ans**
- ☐ A. L
 - ☐ B. A
 - ☒ C. V
 - ☐ D. Q

Q.8 L, K, H, M, Z and U 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 is numbered 6. L lives immediately below H. Z lives immediately below U. Only three people live between M and Z. K does not live on the topmost floor. H does not live on any floors below U. How many people live between H and K?

- Ans**
- ☒ A. Three
 - ☐ B. One
 - ☐ C. Four
 - ☐ D. Two

Q.9 When a sound is produced, what travels through the medium?

- Ans**
- ☐ A. Both the particles and the disturbance
 - ☐ B. Neither particles nor disturbance
 - ☐ C. The particles of the medium
 - ☒ D. The disturbance created by the sound source

Q.10 In $\triangle PQR$, points M and N lie on sides PQ and PR respectively, such that MN is parallel to QR. If $PM:QM = 4:7$ and area of $\triangle PMN = 36 \text{ m}^2$, find the area of trapezium MQRN.

- Ans**
- ☒ A. 236.25 cm^2
 - ☐ B. 222.86 cm^2
 - ☐ C. 216.36 cm^2
 - ☐ D. 248.15 cm^2

Q.11 A machine does 1000 J of work in 5 seconds. Its power is:

- Ans**
- ☐ A. 500 W
 - ☐ B. 100 W
 - ☐ C. 50 W
 - ☒ D. 200 W

Q.12 What will come in place of the question mark (?) in the following equation, if '+' and '÷' are interchanged and '-' and 'x' are interchanged?

$$195 + 5 \times 44 - 6 \div 320 = ?$$

- Ans
- ☒ A. 109
 - ☒ B. 91
 - ☒ C. 95
 - ☒ D. 113

Q.13 In a certain code language, 'CASH' is coded as '1937' and 'EAHS' is coded as '9163'. What is the code for 'E' in the given code language?

- Ans
- ☒ A. 9
 - ☒ B. 3
 - ☒ C. 6
 - ☒ D. 1

Q.14 The reaction of sodium hydrogen carbonate upon heating produces:

- Ans
- ☒ A. Sodium chloride, water, and hydrogen gas under normal heating
 - ☒ B. Sodium hydroxide, oxygen, and carbon monoxide at high temperature
 - ☒ C. Sodium carbonate, water, and carbon dioxide gas during cooking
 - ☒ D. Sodium sulfate, hydrogen, and carbon dioxide when strongly heated

Q.15 Simplify: $2 - [2 - 3\{2 - (2 - 4)\} \div 2]$

- Ans
- ☒ A. 8
 - ☒ B. 4
 - ☒ C. 2
 - ☒ D. 6

Q.16 Anand purchased an item and spent ₹175 on its repair. He then sold it to Bharath at a profit of 25%. Later, Bharath sold the item for ₹3,402, incurring a loss of 58%. What was Anand's cost (in ₹) of the item just before selling it to Bharath?

- Ans
- ☒ A. 6478
 - ☒ B. 6483
 - ☒ C. 6481
 - ☒ D. 6480

Q.17 What should come in place of ? in the given series?

36 40 46 50 56 ?

- Ans
- ☒ A. 59
 - ☒ B. 61
 - ☒ C. 62
 - ☒ D. 60

Q.18 Arman starts from Point A and drives 61 km towards west. He then takes a right turn, drives 58 km, turns right and drives 64 km. He then takes a right turn and drives 71 km. He takes a final right turn, drives 3 km and stops at Point P. How far (shortest distance) and towards which direction should he drive in order to reach Point A again? (All turns are 90 degrees turns only unless specified)

- Ans
- ☒ A. 15 km to the south
 - ☒ B. 14 km to the south
 - ☒ C. 12 km to the north
 - ☒ D. 13 km to the north

Q.19 In a certain code language, 'SONG' is coded as '9785' and 'GONE' is coded as '5867'. What is the code for 'E' in the given code language?

- Ans
- ☒ A. 6
 - ☐ B. 8
 - ☐ C. 5
 - ☐ D. 7

Q.20 24 is related to 74 following a certain logic. Following the same logic, 36 is related to 110. To which of the given options is 51 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 to/subtracting from/multiplying with 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

- Ans
- ☒ A. 155
 - ☐ B. 261
 - ☐ C. 151
 - ☐ D. 266

Q.21 Which of the following ratios is the greatest: 8 : 11, 5 : 7, 13 : 17, or 11 : 13?

- Ans
- ☐ A. 13 : 17
 - ☐ B. 8 : 11
 - ☐ C. 5 : 7
 - ☒ D. 11 : 13

Q.22 Select the set in which the numbers are related in the same way as are the numbers of the following sets.
(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding / subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

(18, 5, 85)
(11, 7, 72)

- Ans
- ☐ A. (9, 7, 68)
 - ☒ B. (15, 6, 85)
 - ☐ C. (10, 8, 85)
 - ☐ D. (8, 4, 32)

Q.23 A speedboat, whose speed is 16 km/hr in still water, travels 40 km downstream and returns in a total of 6 hours 24 minutes. What is the speed of the stream (in km/hr)?

- Ans
- ☐ A. $3\sqrt{7}$
 - ☐ B. $3\sqrt{14}$
 - ☒ C. $2\sqrt{14}$
 - ☐ D. $2\sqrt{7}$

Q.24 A sum of ₹5,890 is divided between Alok, Gita and Suresh such that if their shares are decreased by ₹320, ₹590 and ₹750, respectively, then they are in the ratio of 9 : 3 : 6. What is the original share of Gita?

- Ans
- ☐ A. ₹1,209
 - ☐ B. ₹1,380
 - ☒ C. ₹1,295
 - ☐ D. ₹1,157

Q.25 If 'A' stands for '÷', 'B' stands for '×', 'C' stands for '+' and 'D' stands for '−', then what will come in place of the question mark (?) in the following equation?

$$26 A 2 C 14 B 4 D 18 = ?$$

- Ans**
- ☒ A. 51
 - ☐ B. 44
 - ☐ C. 62
 - ☐ D. 70

Q.26 During a sale, 40% of the goods are sold at a 44% profit, 25% of the remaining goods are sold at a 29% profit and the rest are sold at a 39% loss. If there is an overall profit of x%, then what is the value of x?

- Ans**
- ☒ A. 4.4%
 - ☐ B. 15%
 - ☐ C. 7.5%
 - ☐ D. 10.5%

Q.27 A student's marks were incorrectly entered as 32 instead of 96. Due to this, the average marks of the class got decreased by $\frac{4}{3}$. What is the number of students in the class?

- Ans**
- ☐ A. 45
 - ☒ B. 48
 - ☐ C. 51
 - ☐ D. 54

Q.28 What sum (in ₹) will earn an interest of ₹480 in 3 years at 5% simple interest per year?

- Ans**
- ☐ A. 3000
 - ☐ B. 3350
 - ☒ C. 3200
 - ☐ D. 3400

Q.29 A, B, C, D, E, F and G live on seven 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 is numbered 7. Only two persons live above C. Only two persons live between C and E. B lives immediately above E. D lives immediately below F. A does not live on the lowermost floor. On which floor number does A live?

- Ans**
- ☐ A. Floor number 2
 - ☐ B. Floor number 3
 - ☒ C. Floor number 4
 - ☐ D. Floor number 6

Q.30 There are 2,100 members in a local group. In 2019, the number of members increased by 15%. In 2020, however, the number decreased by 20%. What is the total number of members after these two changes?

- Ans**
- ☒ A. 1932
 - ☐ B. 1754
 - ☐ C. 1905
 - ☐ D. 1836

Q.31 This question is based on the five, three-digit numbers given below.
(Left) 629 574 315 681 459 (Right)
(Example- 697 – First digit = 6, second digit = 9 and third digit = 7)
What will be the resultant if the second digit of the highest number is added to the third digit of the lowest number?

- Ans** ☒ A. 13
☒ B. 11
☒ C. 10
☒ D. 12

Q.32 Six friends D, E, F, G, J and K are sitting in a straight line facing north. No one sits to the right of K. Only one person sits between F and K. Only three people sit between K and J. G sits at some place to the left of D but at some place to the right of E. How many people sit between E and D?

- Ans** ☒ A. Two
☒ B. Four
☒ C. One
☒ D. Three

Q.33 What should come in place of the question mark (?) in the given series?
64 68 80 84 96 100 112 ?

- Ans** ☒ A. 124
☒ B. 120
☒ C. 116
☒ D. 118

Q.34 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** ☒ A. AW - KP
☒ B. AC-DF
☒ C. PR- SU
☒ D. GI-JL

Q.35 If $4x^2 + \frac{1}{4x^2} = 14$, what is the positive value of $x + \frac{1}{4x}$?

- Ans** ☒ A. 4
☒ B. 8
☒ C. 2
☒ D. 1

Q.36 The simplified value of $\left(\frac{\sqrt[3]{2744}}{\sqrt[4]{4096}}\right) \times \frac{4}{42} \times 84$ is

- Ans** ☒ A. 14
☒ B. 22
☒ C. 13
☒ D. 15

Q.37 If the radius of the base of a right circular cylinder is decreased by 19% and its height is increased by 129%, then what is the percentage increase in its volume? [Give your answer correct to the nearest integer value.]

- Ans**
- ☒ A. 66%
 - ☒ B. 50%
 - ☒ C. 28%
 - ☒ D. 36%

Q.38 On reaching an organ or tissue, arteries divide into smaller and smaller vessels. The smallest vessels have walls that are one cell thick and are called:

- Ans**
- ☒ A. capillaries
 - ☒ B. veins
 - ☒ C. arteries
 - ☒ D. arterioles

Q.39 What should come in place of the question mark (?) in the given series based on the English alphabetical order?
DHS HLW LPA PTE ?

- Ans**
- ☒ A. TXS
 - ☒ B. TIX
 - ☒ C. TXI
 - ☒ D. TCD

Q.40 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**
- ☒ A. OP-ST
 - ☒ B. VW-ZA
 - ☒ C. MN-QR
 - ☒ D. EF-HL

Q.41 If mean of 10 observations $x_1, x_2, \dots, x_{10}$ is 20, then the value of $\sum_{i=1}^{10} \left(\frac{3x_i - 4}{5} \right)$ is:

- Ans**
- ☒ A. 111
 - ☒ B. 113
 - ☒ C. 110
 - ☒ D. 112

Q.42 Which of the following is commonly known as the Indian bee?

- Ans**
- ☒ A. Apis mellifera
 - ☒ B. Apis cerana indica
 - ☒ C. Apis florea
 - ☒ D. Apis dorsata

Q.43 Select the pair which follows the same pattern as that followed by the two pairs given below. Both pairs follow the same pattern.

ALI : BIE
IIK : JFG

- Ans**
- ☒ A. BFK : BBG
 - ☒ B. CJE : DGA
 - ☒ C. FQO : FNJ
 - ☒ D. IPN : IMI

Q.44 Refer to the following number, symbol series and answer the question that follows. Counting to be done from left to right only. All numbers are single-digit numbers. (Left) ^ 7 + > 6 \$ > 2 8 4 6 \ 2 & 9 ? + ^ # < % (Right)
How many such numbers are there each of which is immediately preceded by a symbol and also immediately followed by a symbol?

- Ans** ☒ A. Four
☐ B. Three
☐ C. One
☐ D. Two

Q.45 Each letter in the word **VISION** is changed to the letter immediately following it in the English alphabetical order, and then all the letters thus formed are arranged in reverse alphabetical order. Which letter will be fourth from the left?

- Ans** ☐ A. U
☐ B. T
☒ C. O
☐ D. W

Q.46 Which of the following cities hosted World Para Athletics Championships 2025?

- Ans** ☐ A. Mumbai
☒ B. New Delhi
☐ C. Jaipur
☐ D. Bengaluru

Q.47 Refer to the following letter series and answer the question that follows. Counting to be done from left to right only.

(Left) F J A F Y H J I D X Q O B C O P O G F I O G (Right)

How many such consonants are there, each of which is immediately preceded by a consonant and also immediately followed by a consonant?

- Ans** ☒ A. 3
☐ B. 4
☐ C. 5
☐ D. 6

Q.48 A shopkeeper sells an item for ₹324.3 after giving two successive discounts of 60% and 31% 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** ☐ A. 968
☐ B. 947
☒ C. 940
☐ D. 917

Q.49 Five friends Varun, Ankit, Neha, Adya and Ruby are of different ages. Only Adya is older than Ankit. Exactly two people are younger than Ruby. Varun is younger than Neha. How many people among them are older than Neha?

- Ans** ☒ A. Three
☐ B. Four
☐ C. One
☐ D. Two

Q.50 Each of K, L, U, G, A, B and W has an exam on a different day of a week starting from Monday and ending on Sunday of the same week. K has an exam on Tuesday. G has exam on the day immediately before U. Only three people have exams between B and L. L has exam on the day immediately before G. U has an exam on Sunday. W has exam on the day immediately after K. How many people have exams before A?

- Ans
- ☐ A. 1
 - ☐ B. 2
 - ☒ C. 3
 - ☐ D. 4

Q.51 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 cricketers are doctors.
All cricketers are pilots.

Conclusions:

(I) Some doctors are pilots.
(II) All pilots are cricketers.

- Ans
- ☒ A. Only conclusion (I) follows
 - ☐ B. Both conclusions (I) and (II) follow
 - ☐ C. Neither conclusion (I) nor (II) follows
 - ☐ D. Only conclusion (II) follows

Q.52 Each of Akarsh, Bindu, Chetu, Divyansh, Ekam, Fatima and Gudiya has an exam on a different day of a week starting from Monday and ending on Sunday of the same week. Only one person has exam after Ekam. Only two persons have exam before Akarsh. Bindu has exam immediately before Divyansh and only one person has exam between Divyansh and Gudiya. Gudiya has exam on Sunday. Chetu's exam is not on the first day of the week. On which day does Chetu have the exam?

- Ans
- ☐ A. Friday
 - ☐ B. Monday
 - ☒ C. Tuesday
 - ☐ D. Wednesday

Q.53 Which of the following is the correct method to change any provision of the Constitution of India?

- Ans
- ☐ A. Presidential Ordinance
 - ☐ B. Executive Order
 - ☒ C. Constitutional Amendment
 - ☐ D. Supreme Court Approval

Q.54 Three pipes P, Q and R can fill a tank in 6 hours. After working at it together for 2 hours, R is closed, and P and Q can fill the remaining part in 7 hours. Find the number of hours taken by R alone to fill the tank.

- Ans
- ☐ A. 16
 - ☒ B. 14
 - ☐ C. 18
 - ☐ D. 12

Q.55 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'.

Based on the above, how is D related to R if 'D @ M # S - P + R'?

- Ans
- ☐ A. Father
 - ☐ B. Wife's father
 - ☐ C. Brother
 - ☒ D. Wife's brother

Q.56 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
- ☐ A. UR - PM
 - ☒ B. SP - LJ
 - ☐ C. OL - JG
 - ☐ D. LI - GD

Q.57 A question is followed by two statements numbered (I) and (II). You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and decide the appropriate answer.

Q. Four people – Arvind, Bipin, Chetak, and Divyesh – are seated in a row facing south.

Who is seated second from the left end?

(I) Bipin is seated immediately to the right of Arvind.

(II) Divyesh is seated at the extreme right end.

- Ans
- ☒ A. Data in both statements I and II together are NOT sufficient to answer the question
 - ☐ B. Data in Statement II alone is sufficient to answer the question while data in Statement I is not
 - ☐ C. Data in both statements I and II together (and not statement I alone or statement II alone) are sufficient to answer the question
 - ☐ D. Data in Statement I alone is sufficient to answer the question while data in Statement II is not

Q.58 Which of the following functions of mitochondria makes it a powerhouse of the cell?

- Ans
- ☒ A. Generation of ATP
 - ☐ B. Generation of NADPH
 - ☐ C. Generation of heat
 - ☐ D. Generation of enzymes

Q.59 If the interest earned during the 2nd year on a certain sum is ₹8063, and the rate of interest is 10% per annum compounded annually, then the sum is:

- Ans
- ☒ A. ₹73300
 - ☐ B. ₹72750
 - ☐ C. ₹74250
 - ☐ D. ₹73705

Q.60 Which of the following statements correctly defines refraction of light?

- Ans
- ☐ A. Bending of light when it falls on a mirror
 - ☒ B. Change in direction of light when it passes from one medium to another
 - ☐ C. Scattering of light by air molecules
 - ☐ D. Splitting of light into seven colours

Q.61 What will come in the place of '?' in the following equation, if '+' and '-' are interchanged and 'x' and '÷' are interchanged?

$$29 - 6 + 19 \times 19 \div 8 = ?$$

- Ans** ☒ A. 27
☐ B. 29
☐ C. 25
☐ D. 28

Q.62 From a point in the interior of an equilateral triangle, the length of the perpendiculars to the three sides are 18 cm, 30 cm and 39 cm respectively. If the area of the triangle is $m\sqrt{k}$ cm², then find the value of $m - k$.

- Ans** ☐ A. 363
☐ B. 306
☐ C. 333
☒ D. 336

Q.63 Select the triad which follows the same pattern as that followed by the two triads given below. Both pairs follow the same pattern.

GLMT : MQQW
DQCL : JVGO

- Ans** ☐ A. HNEX : NSIB
☒ B. IOYS : OTCV
☐ C. LGTM : RLWP
☐ D. FYZN : LDEQ

Q.64 Refer to the following number and symbol series and answer the question that follows. Counting to be done from left to right only. All numbers are single-digit numbers.

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

How many such symbols are there, each of which is immediately preceded by an odd number but not immediately followed by an even number?

- Ans** ☐ A. One
☐ B. Three
☐ C. None
☒ D. Two

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

Statements:

All speakers are radios.
No radio is a television.

Conclusions:

(I) No speaker is a television.
(II) Some televisions are radios.

- Ans** ☒ A. Only conclusion (I) follows.
☐ B. Both conclusions (I) and (II) follow.
☐ C. Neither conclusion (I) nor (II) follows.
☐ D. Only conclusion (II) follows.

Q.66 Refer to the following letter series and answer the question that follows. Counting to be done from left to right only.
(Left) A Q D F H S I C X Z A Q D F H G U Z A O G U K (Right)
How many such consonants are there, each of which is immediately preceded by a vowel and also immediately followed by a vowel?

- Ans**
- ☒ A. Three
 - ☒ B. None
 - ☒ C. Two
 - ☒ D. One

Q.67 Why is a colloid considered stable?

- Ans**
- ☒ A. Its particles dissolve completely in the dispersion medium.
 - ☒ B. Its particles can be separated easily by filtration.
 - ☒ C. Its particles do not settle down when left undisturbed.
 - ☒ D. Its particles react chemically with the dispersion medium.

Q.68 D, E, F, G, K, L, and M are sitting around a circular table, facing the centre of the table. F sits fourth to the left of E. M sits fourth to the right of G. Only two people sit between E and G when counted from the left of E. D is not an immediate neighbour of M or E. K is not an immediate neighbour of D.
Who sits third to the right of L?

- Ans**
- ☒ A. D
 - ☒ B. F
 - ☒ C. K
 - ☒ D. M

Q.69 What is the mode of the following data?

55, 50, 48, 43, 55, 41, 54, 51, 41, 45, 53, 54, 52, 41, 49, 54, 41, 49

- Ans**
- ☒ A. 54
 - ☒ B. 49
 - ☒ C. 55
 - ☒ D. 41

Q.70 A racer car covers the first 160 km at a speed of 80 km/hr, another 160 km at 120 km/hr and the last 160 km at 80 km/hr. Find out average speed of the racer car for the entire journey.

- Ans**
- ☒ A. 90 km/hr
 - ☒ B. 100 km/hr
 - ☒ C. 105 km/hr
 - ☒ D. 95 km/hr

Q.71 In a certain code language,
'A + B' means 'A is the mother 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 M related to K if 'J × K - L ÷ M + N'?

- Ans**
- ☒ A. Mother's husband
 - ☒ B. Father's brother
 - ☒ C. Wife's father
 - ☒ D. Brother's daughter

Q.72 The marked price of an item is 10% higher than the cost price and a discount of 10% is given on the marked price. What is the percentage gain or loss to the business owner in this sale?

- Ans**
- ☒ A. 1% loss
 - ☐ B. 1% gain
 - ☐ C. 2% loss
 - ☐ D. 2% gain

Q.73 LOVE is related to QKYC in a certain way based on the English alphabetical order. In the same way, ILSG is related to NHVE. To which of the following is QNVT related, following the same logic?

- Ans**
- ☐ A. VJXQ
 - ☐ B. UKYR
 - ☐ C. UKXQ
 - ☒ D. VJYR

Q.74 A 12 m tall building casts a shadow of 8 m at a certain time of the day. At the same time, a vertical pole with a flag on top casts a shadow of 15 m. If the height of the flag alone is 3 m, find the height of the pole.

- Ans**
- ☐ A. 21 m
 - ☐ B. 17.5 m
 - ☒ C. 19.5 m
 - ☐ D. 18 m

Q.75 In this question, a question is followed by two statements numbered (I) and (II). You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and decide the appropriate answer.
Among the five poles—R, A, M, E, and N—each having a different height, which pole is the shortest?

(I) N is taller than M

(II) E is taller than N. R is only shorter than one pole

- Ans**
- ☐ A. Both statements I and II together (and not statement I alone or statement II alone) are sufficient to answer the question
 - ☐ B. Data in statement I alone is sufficient to answer the question while data in statement II is not
 - ☒ C. Both statements I and II together are NOT sufficient to answer the question
 - ☐ D. Data in statement II alone is sufficient to answer the question while data in statement I is not



रेल भर्ती बोर्ड / RAILWAY RECRUITMENT BOARDS

सी ई एन - ०१/२०२५ - CEN - 01/2025

सहायक लोको पायलट की भर्ती/ Recruitment of Assistant Loco Pilot



Test Date	17/02/2026
Test Time	12:30 PM - 1:30 PM
Subject	RRB ALP CBT 1

* 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 : RRB ALP

Q.1 A car travels 120 km at 60 km/h, then 200 km at 80 km/h, but during the second segment, it experiences a total stoppage time of 20 minutes due to traffic. After that, it covers the final 150 km at 100 km/h. What is the average speed (in km/h, rounded off to one decimal place) of the car for the entire journey including stoppage times?

Ans ☒ A. 74.2

☐ B. 75.3

☐ C. 73.5

☐ D. 72.4

Q.2 Megaphones, loudhailers, horns and musical instruments like trumpets and shehnais are designed to:

Ans ☐ A. Absorb sound waves

☒ B. Send sound in a specific direction

☐ C. Spread sound equally in all directions

☐ D. Reduce the loudness of sound

Q.3 A question is followed by two statements numbered (I) and (II). You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and decide the appropriate answer.

Q. Four bags – Atlas, Bolt, Cargo, and Drift – have different weights.

Which bag is heavier: Bolt or Cargo?

(I) Atlas is heavier than Bolt but lighter than Drift.

(II) Cargo is lighter than Drift but heavier than Atlas.

Ans ☐ A. Data in Statement II alone is sufficient to answer the question while data in Statement I is not

☐ B. Data in both statements I and II together are NOT sufficient to answer the question

☒ C. Data in both statements I and II together (and not statement I alone or statement II alone) are sufficient to answer the question

☐ D. Data in Statement I alone is sufficient to answer the question while data in Statement II is not

Q.4 Paritosh starts from Point A and drives 22 km towards South. He then takes a right turn, drives 12 km, turns right and drives 26 km. He then takes a right turn and drives 23 km. He takes a final right turn, drives 4 km and stops at Point P. How far (shortest distance) and towards which direction should he drive in order to reach Point A again? (All turns are 90-degree turns only, unless specified.)

Ans ☐ A. 11 km to the east

☐ B. 10 km to the west

☒ C. 11 km to the west

☐ D. 10 km to the east

Q.5 What should come in place of ? in the given series?

91 97 106 118 133 ?

- Ans
- ☐ A. 150
 - ☐ B. 152
 - ☒ C. 151
 - ☐ D. 153

Q.6 Select the set in which the numbers are related in the same way as are the numbers of the following sets.
(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding / subtracting / multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)
(8,168,7)
(9,243,9)

- Ans
- ☒ A. (12,252,7)
 - ☐ B. (16,324,8)
 - ☐ C. (15,330,8)
 - ☐ D. (13,325,9)

Q.7 Refer to the following letter series and answer the question that follows. Counting to be done from left to right only.

(Left) F U V G Q R T N E S C T E U S R R S Q Q Y (Right)

How many such vowels are there, each of which is immediately preceded by a consonant and also immediately followed by a consonant?

- Ans
- ☐ A. One
 - ☐ B. More than three
 - ☒ C. Two
 - ☐ D. None

Q.8 This question is based on the five, three-digit numbers given below.
(Left) 567 254 395 486 671 (Right)
(Example- 697 – First digit = 6, second digit = 9 and third digit = 7)
What will be the resultant if the third digit of the highest number is added to the third digit of the lowest number?

- Ans
- ☐ A. 4
 - ☐ B. 3
 - ☒ C. 5
 - ☐ D. 2

Q.9 What should come in place of the question mark (?) in the given series based on the English alphabetical order?
MCZ RHE WMJ BRO ?

- Ans
- ☐ A. GTW
 - ☐ B. GRD
 - ☒ C. GWT
 - ☐ D. GER

Q.10 If $m:f = 16:3$, then what is the value of $\frac{3m - 16f}{3m + 16f}$?

- Ans ☒ A. 0
- ☒ B. $\frac{233}{249}$
- ☒ C. $\frac{253}{247}$
- ☒ D. $\frac{253}{249}$

Q.11 The length of a side of a square is equal to the diameter of a circle. If the area of the square is equal to 196cm^2 , then find the area of the circle (in cm^2). (Use $\pi = \frac{22}{7}$)

- Ans ☒ A. 154
- ☒ B. 148
- ☒ C. 616
- ☒ D. 145

Q.12 D, E, F, G, I, J and K are sitting around a circular table, facing the centre of the table. E sits to the immediate left of I. F sits to the immediate left of D. D sits second to the left of K. G sits third to the left of I. Who sits third to the right of J?

- Ans ☒ A. G
- ☒ B. K
- ☒ C. D
- ☒ D. F

Q.13 Refer to the following letter, symbol series and answer the question that follows. Counting to be done from left to right only.
(Left) # P & T £ @ G \$ G V M & X M @ # & L L @ K Y (Right)
How many such letter are there, each of which is immediately preceded by a symbol and also immediately followed by a symbol?

- Ans ☒ A. 3
- ☒ B. 4
- ☒ C. 5
- ☒ D. 2

Q.14 A shopkeeper sells an item for ₹430.5 after giving two successive discounts of 70% and 75% on its marked price. Had he not given any discount, he would have earned a profit of 40%. What is the cost price (in ₹) of the item?

- Ans ☒ A. 4,121
- ☒ B. 4,145
- ☒ C. 4,100
- ☒ D. 4,081

Q.15 Select the pair which follows the same pattern as that followed by the two set of pairs given below. Both pairs follow the same pattern.

NLGT : SPJV
DQCL : IUFN

- Ans ☒ A. JPZS : OTCU
- ☒ B. WXYZ : BBBC
- ☒ C. KNMS : PRPV
- ☒ D. RMEF : WRHH

Q.16 Each vowel in the word JOURNAL is changed to the letter immediately following it in the English alphabetical order and each consonant is changed to the letter immediately preceding it in the English alphabetical order. How many vowels are there in the new group of letters thus formed?

- Ans** ☒ A. 1
☒ B. 0
☒ C. 3
☒ D. 2

Q.17 A product's price after successive discounts of 20% and 10% is ₹7,200. What was the original price of the product before any discounts were applied?

- Ans** ☒ A. ₹9,000
☒ B. ₹12,000
☒ C. ₹10,000
☒ D. ₹11,000

Q.18 What is the mode of the following data?

77, 85, 87, 75, 78, 62, 68, 61, 90, 63, 61, 71, 69, 77, 75, 82, 75, 69, 74, 75, 70, 81, 65, 66, 61

- Ans** ☒ A. 75
☒ B. 77
☒ C. 61
☒ D. 69

Q.19 The distance between the pole and the principal focus of a spherical mirror is called:

- Ans** ☒ A. Focal length
☒ B. Magnification
☒ C. Radius of curvature
☒ D. Aperture

Q.20 4% of a number is what percentage of 20% of the same number?

- Ans** ☒ A. 500%
☒ B. 16.67%
☒ C. 8.33%
☒ D. 20%

Q.21 In the following number-pairs, the second number is obtained by applying certain mathematical operation(s) to the first number. Which numbers should replace X and Y, so that the pattern followed by the two numbers on the left side of :: is the same as that on the right side of ::?

(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 to/subtracting from/multiplying with 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

X : 98 :: 196 : Y

- Ans** ☒ A. X = 116, Y = 178
☒ B. X = 104, Y = 185
☒ C. X = 47, Y = 101
☒ D. X = 98, Y = 96

Q.22 Vinay starts to walk from point A towards the south for 7 m. Then he takes a left turn and walks for 8 m. Then he takes a left turn and walks for 4 m. Then he takes a left turn and walks for 2 m. Then he takes a right turn and walks for 3 m. At last, he takes left turn and walks for 2 m and stops at point B. Towards which direction should he walk in order to reach point A again? (All turns are 90-degree turns only unless specified.)

- Ans
- ☐ A. North
 - ☐ B. South
 - ☐ C. East
 - ☒ D. West

Q.23 What should come in place of the question mark (?) in the given series based on the English alphabetical order?

ZHW UCR PXM KSH ?

- Ans
- ☐ A. FCD
 - ☒ B. FNC
 - ☐ C. FCN
 - ☐ D. FDR

Q.24 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
- ☐ A. JI-LK
 - ☐ B. BA-DC
 - ☒ C. GH-PQ
 - ☐ D. XW-ZY

Q.25 Five students, P, Q, R, S, and T, have different heights. P is taller than Q but shorter than R. S is not the shortest. Only one student is shorter than T. Who among them is the shortest?

- Ans
- ☐ A. P
 - ☐ B. R
 - ☒ C. Q
 - ☐ D. S

Q.26 Each of A, B, C, D, E, F and G play a game on a different day of a week starting from Monday and ending on Sunday of the same week. B plays the game on Wednesday. Only three persons play between B and F. Only one person plays between C and F. A plays immediately before D. G does not play immediately after B. On which day does A play the game?

- Ans
- ☐ A. Tuesday
 - ☐ B. Sunday
 - ☐ C. Friday
 - ☒ D. Monday

Q.27 What will come in place of the question mark (?) in the following equation, if '+' and '÷' are interchanged and '-' and 'x' are interchanged?

$$312 + 6 \times 8 - 21 \div 169 = ?$$

- Ans
- ☐ A. 51
 - ☐ B. 59
 - ☐ C. 55
 - ☒ D. 53

Q.28 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'.

Based on the above, how is D related to R if 'D # M - S + P @ R'?

- Ans
- ☐ A. Brother's daughter
 - ☐ B. Brother's wife's mother
 - ☒ C. Brother's wife's sister
 - ☐ D. Brother's wife

Q.29 A question is followed by two statements numbered (I) and (II). You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and decide the appropriate answer.

Q. Four people – Amit, Bhavesh, Chandan, and Dhiraj – are of different ages.

Who is the oldest?

(I) Bhavesh is older than Amit but younger than Dhiraj.

(II) Chandan is younger than Dhiraj but older than Amit.

- Ans
- ☒ A. Data in both statements I and II together (and not statement I alone or statement II alone) are sufficient to answer the question
 - ☐ B. Data in Statement I alone is sufficient to answer the question while data in Statement II is not
 - ☐ C. Data in Statement II alone is sufficient to answer the question while data in Statement I is not
 - ☐ D. Data in both statements I and II together are NOT sufficient to answer the question

Q.30 If $a^2 + b^2 + c^2 + 189 = 6(a + 4b + 2c)$, then $\sqrt{ab + bc + ca}$ is equal to:

- Ans
- ☐ A. $2\sqrt{14}$
 - ☐ B. $2\sqrt{11}$
 - ☐ C. $3\sqrt{11}$
 - ☒ D. $3\sqrt{14}$

Q.31 It is given that, $\triangle ABC \sim \triangle EDF$ such that AB = 5 cm, AC = 7.5 cm, DF = 15 cm and ED = 12.5 cm. The sum of the remaining sides of the triangles is:

- Ans
- ☒ A. 24.75 cm
 - ☐ B. 22.25 cm
 - ☐ C. 20.25 cm
 - ☐ D. 23.25 cm

Q.32 Anand purchased an item and spent ₹63 on its repair. He then sold it to Bharath at a profit of 25%. Later, Bharath sold the item for ₹8415, incurring a loss of 15%. What was Anand's cost (in ₹) of the item just before selling it to Bharath?

- Ans
- ☐ A. 7917
 - ☐ B. 7918
 - ☒ C. 7920
 - ☐ D. 7919

Q.33 In a certain code language,
'A # B' means 'A is the daughter of B',
'A % B' means 'A is the father of B',
'A - B' means 'A is the son of B',
'A @ B' means 'A is the sister of B'.

How is S related to U if 'S @ M - H # Y % U'?

- Ans ☒ A. Sister's daughter
☐ B. Brother's daughter
☐ C. Daughter
☐ D. Sister

Q.34 Bharat, Jyoti, and Vishal invest ₹70,000, ₹32,000, and ₹46,000, respectively, to start a business. At the end of the year, the total profit earned is ₹52,540. 60% of the total profit earned is given to charity and the rest is divided among them in the ratio of their profit. What will be the share of Vishal (in ₹)?

- Ans ☐ A. 6,380
☒ B. 6,532
☐ C. 6,520
☐ D. 6,453

Q.35 What will come in the place of '?' in the following equation, if '+' and '-' are interchanged and 'x' and '÷' are interchanged?

$$5 \times 39 \div 39 + 39 - 5 = ?$$

- Ans ☒ A. -29
☐ B. -27
☐ C. -31
☐ D. -30

Q.36 If the cost price of 12 identical books is ₹960 and the cost price of 8 identical pens is ₹320, find the total cost price (in ₹) of 15 books and 10 pens of the same kind.

- Ans ☐ A. 1800
☒ B. 1600
☐ C. 1200
☐ D. 1500

Q.37 Read the given statement(s) 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 statement(s).

Statements:

Some buttons are mangoes.
Some pigs are mangoes.

Conclusions:

(I) Some buttons are pigs.
(II) All mangoes are buttons.

- Ans ☐ A. Both conclusions (I) and (II) follow.
☒ B. Neither conclusion (I) nor (II) follows.
☐ C. Only conclusion (I) follows.
☐ D. Only conclusion (II) follows.

Q.38 The mean of a data is four times of its mode. If the median of the data is 63, find its mean.

- Ans ☐ A. 63
☐ B. 72
☐ C. 93
☒ D. 84

Q.39 A student's marks were incorrectly entered as 44 instead of 92. Due to this, the average marks of the class got decreased by $\frac{4}{3}$. What is the number of students in the class?

- Ans**
- ☐ A. 43
 - ☐ B. 32
 - ☒ C. 36
 - ☐ D. 41

Q.40 Which of the following processes is responsible for the transportation of soluble products formed by photosynthesis in different parts of plant?

- Ans**
- ☐ A. Transpiration
 - ☐ B. Assimilation
 - ☐ C. Termination
 - ☒ D. Translocation

Q.41 NQMI is related to TWSO in a certain way based on the English alphabetical order. In the same way, DHKF is related to JNQL. To which of the following is LOPS related, following the same logic?

- Ans**
- ☐ A. QUUX
 - ☒ B. RUVY
 - ☐ C. RVUY
 - ☐ D. QVXX

Q.42 Three pipes of diameters 2 cm, 3 cm and 4 cm are running together to fill a cistern. The smallest pipe alone can fill the cistern in 232 minutes. The amount of water flowing in each pipe is proportional to the square of its diameter. The time (in minutes) taken by all pipes running together to completely fill the cistern is:

- Ans**
- ☐ A. 40
 - ☐ B. 42
 - ☒ C. 32
 - ☐ D. 36

Q.43 In a certain code language, 'book is published' is coded as 'cw ku qr' and 'book was interesting' is coded as 'ot qr zx'. How is 'book' coded in the given language?

- Ans**
- ☐ A. ot
 - ☒ B. qr
 - ☐ C. cw
 - ☐ D. ku

Q.44 The cost of 7 kg of sugar of quality A is ₹245, and the cost of 5 kg of sugar of quality B is ₹300. In what ratio should quality A sugar and quality B sugar be mixed so that the cost of 1 kg of the mixture is ₹50?

- Ans**
- ☐ A. 3 : 4
 - ☒ B. 2 : 3
 - ☐ C. 3 : 2
 - ☐ D. 4 : 3

Q.45 Refer to the following letter, symbol series and answer the question that follows.
Counting to be done from left to right only.
(Left) K Ω T & R \$ S @ B * L % N # P £ D Ω G \$ M (Right)
How many such letters are there, each of which is immediately preceded by a symbol and also immediately followed by another symbol?

- Ans**
- ☐ A. One
 - ☐ B. Three
 - ☒ C. More than three
 - ☐ D. Two

Q.46 What should come in place of the question mark (?) in the given series?
25 29 34 40 47 55 ?

- Ans**
- ☐ A. 62
 - ☐ B. 68
 - ☐ C. 66
 - ☒ D. 64

Q.47 A person drove at 59 kmph for 3.5 hours, then increased his speed by 9 kmph, and reached the destination in another hour. Find the average speed (in kmph) of the person during the entire journey.

- Ans**
- ☒ A. 61
 - ☐ B. 57
 - ☐ C. 59
 - ☐ D. 66

Q.48 Oaths and affirmations for various constitutional posts are provided in which Schedule of the Indian Constitution?

- Ans**
- ☐ A. Eleventh Schedule
 - ☐ B. First Schedule
 - ☒ C. Third Schedule
 - ☐ D. Ninth Schedule

Q.49 In 2025, which Indian state unveiled plans to establish the country's first Quantum Computing Village?

- Ans**
- ☐ A. Tamil Nadu
 - ☐ B. Kerala
 - ☒ C. Andhra Pradesh
 - ☐ D. Haryana

Q.50 In a code language, 'SAND' is coded as WDRG and 'BIRD' is coded as FLVG. How will 'FOUR' be coded in the same language?

- Ans**
- ☐ A. JSXV
 - ☒ B. JRYU
 - ☐ C. IRYW
 - ☐ D. ISXV

Q.51 Seven people, A, B, C, D, E, F and G, are sitting in a row, facing north. No one sits to the right of E. Only three people sit between E and D. Only two people sit between D and A. F sits third to the left of B. G sits to the immediate right of B. How many people sit between B and E?

- Ans**
- ☐ A. 3
 - ☒ B. 2
 - ☐ C. 1
 - ☐ D. 4

Q.52 Based on the English alphabetical order, three of the following four letter-cluster pairs are alike in a certain way and thus form a group. Which 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**
- ☐ A. PN - QO
 - ☒ B. RP - BJ
 - ☐ C. MK - NL
 - ☐ D. FD - GE

Q.53 Each letter in the word SHOCKED is changed to the letter immediately preceding it in the English alphabetical order and then all the letters thus obtained are arranged in the English alphabetical order. Which of the following letters will be second from the right in the new group of letters thus formed?

- Ans**
- ☒ A. D
 - ☒ B. N
 - ☒ C. G
 - ☒ D. J

Q.54 In a division sum, the divisor is 2 times the quotient and 4 times the remainder. If the remainder is 22, what is the dividend?

- Ans**
- ☒ A. 3894
 - ☒ B. 3892
 - ☒ C. 3899
 - ☒ D. 3889

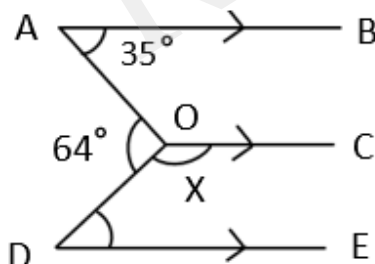
Q.55 The price of an article was ₹1600, It increased by 10% in the first year and by 20% in the second year. What is the price (in ₹) of the article after two years?

- Ans**
- ☒ A. 2000
 - ☒ B. 2144
 - ☒ C. 1840
 - ☒ D. 2112

Q.56 Each of Gauri, Hina, Isha, Jack, Kunti, Lali and Mahima has an exam on a different day of a week starting from Monday and ending on Sunday of the same week. Gauri has an exam on Monday. Only three persons have exams between Gauri and Kunti. Hina has exam immediately after Jack and Hina has exam immediately before Isha. Lali does not have an exam on the last day. On which day does Lali have the exam?

- Ans**
- ☒ A. Sunday
 - ☒ B. Wednesday
 - ☒ C. Saturday
 - ☒ D. Tuesday

Q.57 In the given figure, find the value of x.



- Ans**
- ☒ A. 105°
 - ☒ B. 145°
 - ☒ C. 209°
 - ☒ D. 151°

Q.58 A cistern can be filled by a tap in 5 hours and emptied by an outlet pipe in 9 hours. How long will it take to fill the cistern if both the tap and the pipe are opened together?

- Ans**
- ☒ A. 11 hours 25 minutes
 - ☒ B. 11 hours 15 minutes
 - ☒ C. 12 hours 15 minutes
 - ☒ D. 12 hours 25 minutes

Q.59 For an echo to be heard clearly, the reflecting surface should be at least how far from the listener? (Take speed of sound ≈ 340 m/s)

- Ans
- ☒ A. 50 m
 - ☒ B. 17 m
 - ☒ C. 100 m
 - ☒ D. 34 m

Q.60 During a sale 50% of the goods are sold at 40% profit, 30% of the remaining goods are sold at 46% profit and the still remaining goods are sold at a loss of 24%. If there is an overall profit of x%, then what is the value of x?

- Ans
- ☒ A. 18.5
 - ☒ B. 17.5
 - ☒ C. 19
 - ☒ D. 20

Q.61 A solid metal sphere is melted and smaller spheres of equal radii are formed. 5% of the volume of the sphere is lost during the process. The smaller sphere has a radius that is one-tenth of the large sphere. If 14 liters of paint was needed to paint the larger sphere, how many liters is needed to paint all the smaller spheres?

- Ans
- ☒ A. 154 liters
 - ☒ B. 102 liters
 - ☒ C. 133 liters
 - ☒ D. 44 liters

Q.62 Seven boxes, M, N, O, P, Q, R and S, are kept one over the other but not necessarily in the same order. P is kept third from the bottom. Only one box is kept between P and M but M is not kept in the lowermost position. Only three boxes are kept between M and R. O is kept immediately below Q. Only one box is kept between O and N. Which box is second from the top?

- Ans
- ☒ A. O
 - ☒ B. N
 - ☒ C. Q
 - ☒ D. R

Q.63 If 'P' stands for 'x', 'Q' stands for '+', 'R' stands for '-' and 'S' stands for '+', then what will come in place of the question mark (?) in the following equation?

$$70 Q 2 R 5 P 3 S 18 = ?$$

- Ans
- ☒ A. 48
 - ☒ B. 38
 - ☒ C. 21
 - ☒ D. 54

Q.64 If the energy of an electron in the second orbit of hydrogen is -3.4 eV, what is the energy in the fourth orbit?

- Ans
- ☒ A. -1.7 eV
 - ☒ B. -6.8 eV
 - ☒ C. -13.6 eV
 - ☒ D. -0.85 eV

Q.65 PL 2 is related to LO 15 in a certain way. In the same way, NJ 5 is related to JM 18. To which of the given options is NP 3 related, following the same logic?

- Ans
- ☒ A. IT 14
 - ☒ B. JT 14
 - ☒ C. JS 16
 - ☒ D. IS 16

Q.66 The cilia in the upper respiratory tract primarily help in:

- Ans
- ☐ A. Absorbing oxygen
 - ☐ B. Gas exchange
 - ☐ C. Pumping blood to lungs
 - ☒ D. Removing harmful particles from inhaled air

Q.67 Why do we feel cool after applying water on our skin in summer?

- Ans
- ☒ A. Evaporation of water absorbs heat from the skin surface
 - ☐ B. Water reduces sweat formation and retains body heat
 - ☐ C. Water increases body temperature by absorbing sunlight
 - ☐ D. Condensation of water releases energy on the skin surface

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:

No rugs are lamps.
No doors are rugs.

Conclusions:

(I) No doors are lamps.
(II) Some lamps are doors.

- Ans
- ☐ A. Only conclusion (II) follows.
 - ☐ B. Only conclusion (I) follows.
 - ☐ C. Both conclusions (I) and (II) follow.
 - ☒ D. Neither conclusion (I) nor (II) follows.

Q.69 Atul distributed ₹24700 between his two grandsons 12-year-old Baban and 13-year-old Rakesh such that they get equal money when they turn 23 years old. Till then the money is in a bank getting compound interest at 8% per annum, compounded annually. How much (in ₹) Atul deposited in the name of Rakesh?

- Ans
- ☒ A. 12825
 - ☐ B. 11625
 - ☐ C. 13175
 - ☐ D. 11875

Q.70 What sum (in ₹) will earn an interest of ₹480 in 2 years at 12% simple interest per year?

- Ans
- ☐ A. 2200
 - ☐ B. 1800
 - ☒ C. 2000
 - ☐ D. 2150

Q.71 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 its constituent digits. E.g. 13 – Operations on 13 such as adding / subtracting / multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

112 - 100
34 - 22

- Ans
- ☐ A. 55 - 42
 - ☒ B. 15 - 3
 - ☐ C. 23 - 12
 - ☐ D. 43 - 23

Q.72 On the basis of function, the plasma membrane is _____ in nature.

- Ans
- ☒ A. semi-permeable
 - ☒ B. selectively permeable
 - ☒ C. fully permeable
 - ☒ D. fully non-permeable

Q.73 A, B, D, U, P and K 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 is numbered 6. U lives on an odd-numbered floor but not on the lowermost floor. Only one person lives between U and P. D does not live on the lowermost floor. K lives immediately above D. B lives immediately above U. A lives immediately below U. Who lives on Floor 2?

- Ans
- ☒ A. A
 - ☒ B. P
 - ☒ C. U
 - ☒ D. B

Q.74 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
- ☒ A. CVR
 - ☒ B. OI D
 - ☒ C. GAV
 - ☒ D. JDY

Q.75 Each letter in the word BANNER is changed to the letter immediately preceding it in the English alphabetical order, and then all the letters thus formed are arranged in reverse alphabetical order. Which letter will be third letter from the right in the new number thus formed?

- Ans
- ☒ A. C
 - ☒ B. M
 - ☒ C. B
 - ☒ D. L



रेल भर्ती बोर्ड / RAILWAY RECRUITMENT BOARDS

सी ई एन - ०१/२०२५ - CEN - 01/2025

सहायक लोको पायलट की भर्ती/ Recruitment of Assistant Loco Pilot



Test Date	17/02/2026
Test Time	4:00 PM - 5:00 PM
Subject	RRB ALP CBT 1

* 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 : RRB ALP

Q.1 A trader marked the price of an item 40% above the cost price. He allowed two successive discounts of 20% and 25% to a customer. If he incurred a loss of ₹224, at what price did he sell the item to that customer?

- Ans**
- ☒ A. ₹1,276
 - ☒ B. ₹1,167
 - ☒ C. ₹1,176
 - ☒ D. ₹1,166

Q.2 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**
- ☒ A. YAC
 - ☒ B. PRU
 - ☒ C. NPS
 - ☒ D. JLO

Q.3 A number is decreased by 18% and then increased by 22%. Find the net increase or decrease percentage (correct to two places of decimals).

- Ans**
- ☒ A. Decreased 0.04%
 - ☒ B. Decreased 1.2%
 - ☒ C. Increased 0.04%
 - ☒ D. Increased 1.2%

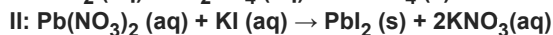
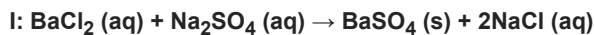
Q.4 If volume of a sphere is numerically equal to the surface area of the sphere, then find the radius and surface area of the sphere. (Correct to 3 decimal places) (Use $\pi = \frac{22}{7}$)

- Ans**
- ☒ A. 2 unit and 113.143 unit²
 - ☒ B. 3 unit and 113.143 unit²
 - ☒ C. 3 unit and 131.143 unit²
 - ☒ D. 3 unit and 112.143 unit²

Q.5 Simplify: $\frac{\sin A}{1 - \cos A} + \frac{1 - \cos A}{\sin A}$.

- Ans
- ☐ A. $\sec A$
 - ☐ B. $2\sec A$
 - ☐ C. $\operatorname{cosec} A$
 - ☒ D. $2\operatorname{cosec} A$

Q.6 Consider the following chemical reactions:



Which of the following correctly classifies these reactions?

- Ans
- ☐ A. I: Double displacement reaction; II: Displacement reaction
 - ☐ B. I: Double displacement reaction; II: Neutralisation reaction
 - ☐ C. I: Displacement reaction; II: Double displacement reaction
 - ☒ D. Both are double displacement reactions

Q.7 A question is followed by two statements numbered (I) and (II). You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and select the most appropriate answer.

Question:

Among 5 poles, I, L, O, M and D each having a different height, which pole is the tallest?

Statements:

(I) I is taller than M but shorter than D. I is shorter than only one pole.

(II) M is taller than L.

- Ans
- ☐ A. Data in both statements I and II together are not sufficient to answer the question.
 - ☒ B. Data in statement I alone is sufficient to answer the question while data in statement II is not.
 - ☐ C. Data in statement II alone is sufficient to answer the question while data in statement I is not.
 - ☐ D. Data in both statements I and II together (and not statement I alone or statement II alone) are sufficient to answer the question.

Q.8 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
- ☐ A. PL - KG
 - ☒ B. MI - LP
 - ☐ C. OK - JF
 - ☐ D. KG - FB

Q.9 S, T, U, V, W, X and Y live on seven 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 is numbered 7. U lives on the fourth floor. Only two persons live between U and V. T lives immediately below V. W lives immediately above X but X does not live on the lowermost floor. S does not live on the lowermost floor. On which floor number does S live?

- Ans
- ☐ A. Floor Number 3
 - ☒ B. Floor Number 5
 - ☐ C. Floor Number 1
 - ☐ D. Floor Number 2

Q.10 In a certain code language,
'S + T' means 'S is the father of T',
'S - T' means 'S is the brother of T',
'S x T' means 'S is the wife of T' and
'S ÷ T' means 'S is the sister of T'.
Based on the above, how is M related to Q if 'M - N ÷ O + P x Q'?

- Ans
- ☐ A. Wife's mother's brother
 - ☐ B. Mother's brother
 - ☒ C. Wife's father's brother
 - ☐ D. Father

Q.11 On a certain sum, if at the same rate of interest, in 2 years, the simple interest is ₹64 and the compound interest is ₹72, then what is the sum (in ₹)?

- Ans
- ☐ A. 121
 - ☐ B. 132
 - ☒ C. 128
 - ☐ D. 123

Q.12 The volume of a solid cylinder is $5,236 \text{ cm}^3$ and its height is 34 cm. What is the total surface area of the solid cylinder?

$$\left(\text{Use } \pi = \frac{22}{7} \right)$$

- Ans
- ☒ A. 1804 cm²
 - ☐ B. 1841 cm²
 - ☐ C. 1823 cm²
 - ☐ D. 1831 cm²

Q.13 MXEL is related to OZHP in a certain way based on the English alphabetical order. In the same way, VRHB is related to XTKF. To which of the given options is QOJA related, following the same logic?

- Ans
- ☐ A. TQLF
 - ☒ B. SQME
 - ☐ C. SOME
 - ☐ D. TRLE

Q.14 When white light passes through a prism, different colours of light bend through different angles. Which colour bends the least and which bends the most?

- Ans
- ☐ A. Blue bends the least, yellow bends the most
 - ☐ B. Red bends the most, violet bends the least
 - ☒ C. Red bends the least, violet bends the most
 - ☐ D. Both red and violet bend equally

Q.15 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
- ☐ A. OGD
 - ☐ B. JBY
 - ☐ C. ASP
 - ☒ D. RIF

Q.16 Two sets of numbers are given below. In each set of numbers, certain mathematical operation(s) on the first number result(s) in the second number. Similarly, certain mathematical operation(s) on the second number result(s) in the third number and so on. Which of the given options follows the same set of operations as in the given sets? (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 – Operations on 13 such as adding to/subtracting from/multiplying with 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

3 – 9 – 81 – 66 ; 5 – 25 – 625 – 610

- Ans
- ☐ A. 2 – 4 – 16 – 21
 - ☐ B. 9 – 81 – 6588 – 6573
 - ☒ C. 4 – 16 – 256 – 241
 - ☐ D. 7 – 49 – 2150 – 2250

Q.17 Which of the following hormones is secreted by the pituitary gland?

- Ans
- ☒ A. Growth hormone
 - ☐ B. Insulin
 - ☐ C. Adrenaline
 - ☐ D. Thyroxine

Q.18 In a certain code language,
'A - B' means 'A is the daughter of B',
'A / B' means 'A is the son of B',
'A * B' means 'A is the wife of B' and
'A + B' means 'A is the husband of B'.
Based on the above, how is T related to Z if 'T / L + H - Z'?

- Ans
- ☐ A. Daughter's daughter
 - ☒ B. Daughter's son
 - ☐ C. Father
 - ☐ D. Mother

Q.19 In a certain code language, 'TRAP' is coded as '7486' and 'CART' is coded as '8274'. What is the code for 'C' in the given code language?

- Ans
- ☐ A. 7
 - ☒ B. 2
 - ☐ C. 4
 - ☐ D. 8

Q.20 Select the set in which the numbers are related in the same way as are the numbers of the following sets.

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

(10, 5, 60)
(9, 6, 64)

- Ans
- ☐ A. (17, 5, 85)
 - ☐ B. (11, 6, 86)
 - ☒ C. (12, 4, 58)
 - ☐ D. (8, 9, 62)

Q.21 Refer to the following letter series and answer the question that follows. Counting to be done from left to right only.
(Left) T S I C X Z O A K L N T E W A K O D F H A G U K (Right)
How many such consonants are there, each of which is immediately preceded by a vowel and also immediately followed by a vowel?

- Ans**
- ☐ A. None
 - ☐ B. Two
 - ☒ C. Three
 - ☐ D. One

Q.22 Each letter in the word **PERSON** is changed to the second letter following it in the English alphabetical order, and then all the letters thus formed are arranged in the English alphabetical order. Which letter will be fifth from the right in the new group of letters formed?

- Ans**
- ☐ A. E
 - ☐ B. Q
 - ☐ C. T
 - ☒ D. P

Q.23 Two sets of numbers are given below. In each set of numbers, a certain mathematical operation on the first number results in the second number. Similarly, certain mathematical operation 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 – A two/three digit number cannot be broken into individual digits for operations e.g. if 37 is followed by 10, the operation cannot be 3+7 as a two digit number cannot be broken into individual digits)

14 - 84 - 86 - 82
15 - 90 - 92 - 88

- Ans**
- ☐ A. 34 - 70 - 79 - 78
 - ☐ B. 22 - 90 - 100 - 99
 - ☐ C. 37 - 298 - 299 - 287
 - ☒ D. 8 - 48 - 50 - 46

Q.24 A concave mirror is used in torches and car headlights because it:

- Ans**
- ☐ A. Always forms virtual images
 - ☐ B. Reduces the brightness of light
 - ☒ C. Can produce a parallel beam of light
 - ☐ D. Scatters light in all directions

Q.25 This question is based on the following words:

FAT HOG NIP LUX

In each of the words, each vowel 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. In how many letter-clusters thus formed, will no vowel appear?

- Ans**
- ☐ A. None
 - ☐ B. One
 - ☒ C. Two
 - ☐ D. Three

Q.26 Select the pair which follows the same pattern as that followed by the two pairs given below. Both pairs follow the same pattern.

FPD : ENB
RUN : QSL

- Ans
- ☐ A. ALM : BNP
 - ☐ B. WHX : VEU
 - ☐ C. ZYB : YTZ
 - ☒ D. KFQ : JDO

Q.27 A car travels x km at 40 km/hr, another x km at 60 km/hr and 2x km at 80 km/hr. Find the average speed for the whole journey.

- Ans
- ☒ A. 60 km/hr
 - ☐ B. 55 km/hr
 - ☐ C. 65 km/hr
 - ☐ D. 58 km/hr

Q.28 In a certain code language, 'TASH' is coded as '6348' and 'BAHT' is coded as '8653'. What is the code for 'B' in the given code language?

- Ans
- ☐ A. 6
 - ☒ B. 5
 - ☐ C. 8
 - ☐ D. 3

Q.29 If the median and mode of a data of 20 numbers are 250 and 295, respectively, then find the sum of the 20 numbers.

- Ans
- ☐ A. 4050
 - ☐ B. 4005
 - ☐ C. 4500
 - ☒ D. 4550

Q.30 What sum (in ₹) will earn an interest of ₹480 in 2 years at 8% simple interest per year?

- Ans
- ☐ A. 3150
 - ☐ B. 2800
 - ☐ C. 3200
 - ☒ D. 3000

Q.31 Which of the following ratios is the smallest?

- Ans
- ☒ A. 4 : 7
 - ☐ B. 7 : 10
 - ☐ C. 5 : 8
 - ☐ D. 6 : 9

Q.32 Refer to the given number, symbol series and answer the question that follows.
Counting to be done from left to right only. (All numbers are single digit numbers only)
(Left) 6 £ 2 @ % 7 8 # 1 3 * 9 \$ & 4 ^ < 5 (Right)
How many such symbols are there each of which is immediately preceded by an odd number but not immediately followed by an even number?

- Ans
- ☐ A. One
 - ☐ B. None
 - ☒ C. Two
 - ☐ D. Three

Q.33 A and B start a business by investing ₹93,000 and ₹54,000, respectively. B leaves the business after 3 months, and then C joins with an investment of ₹28,000 for the remaining period of the year. If 11% of the total profit is ₹61,336, what is B's share of the profit?

- Ans**
- ☐ A. ₹59,070
 - ☐ B. ₹59,059
 - ☒ C. ₹59,040
 - ☐ D. ₹58,951

Q.34 Among five people named V, W, X, Y and Z, each have a certain age. The age of X is 12. V is four times the age of Z. Y is half the age of V. W is thrice the age of X. If Z is one ninth the age of W, what is the age of Y?

- Ans**
- ☐ A. 12
 - ☒ B. 8
 - ☐ C. 6
 - ☐ D. 10

Q.35 Find the simplified value of the following expression:

$$\left(\frac{8.4}{0.7} + \frac{2.4}{4}\right) \div \left(\frac{9.6}{8} - \frac{3}{5}\right)$$

- Ans**
- ☒ A. 21
 - ☐ B. 30
 - ☐ C. 2.4
 - ☐ D. 2.1

Q.36 Each of A, C, I, M, O, Q and W has an exam on a different day of a week starting from Monday and ending on Sunday of the same week. W has an exam on Friday. Exactly 3 people have exams between A and M, neither of whom has an exam on Sunday. Q has an exam immediately after I. O has an exam immediately before M. How many people have exams after Q?

- Ans**
- ☒ A. 3
 - ☐ B. 2
 - ☐ C. 1
 - ☐ D. 4

Q.37 Which chamber of the heart sends deoxygenated blood to the lungs for oxygenation?

- Ans**
- ☐ A. Left ventricle
 - ☐ B. Right atrium
 - ☒ C. Right ventricle
 - ☐ D. Left atrium

Q.38 In this question, a question is followed by two statements numbered (I) and (II). You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and decide the appropriate answer.
Among the five poles—R, A, M, E, and N—each having a different height, which pole is the shortest?
(I) N is taller than only two poles. E is taller than N but shorter than M.
(II) R is taller than A.

- Ans**
- ☐ A. Data in statement I alone is sufficient to answer the question while data in statement II is not
 - ☐ B. Data in statement II alone is sufficient to answer the question while data in statement I is not
 - ☐ C. Both statements I and II together are NOT sufficient to answer the question
 - ☒ D. Both statements I and II together (and not statement I alone or statement II alone) are sufficient to answer the question

Q.39 The value of $9^2 + \sqrt{8^2} - 10\sqrt{49} - 20 =$

- Ans
- ☐ A. 3
 - ☐ B. -6
 - ☒ C. -1
 - ☐ D. -8

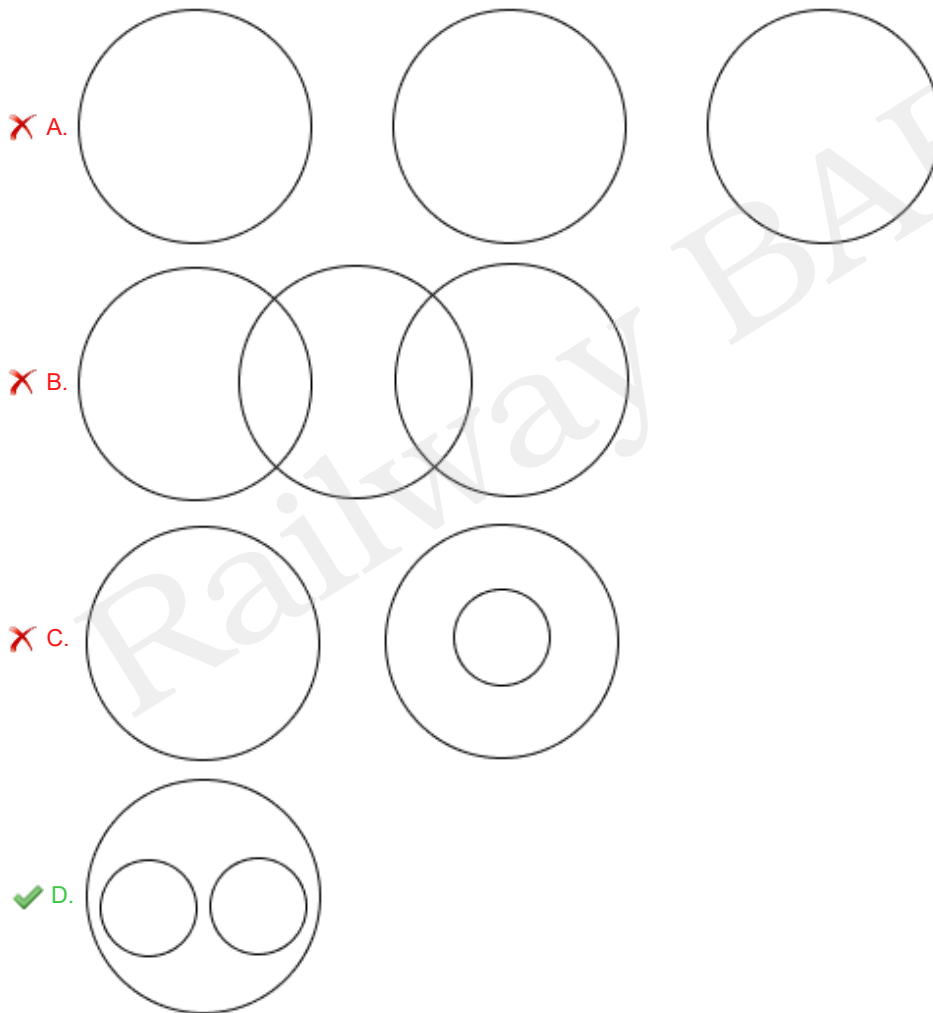
Q.40 Which of the following events happens when lysosomes in a cell burst?

- Ans
- ☐ A. Enzymes digest foreign particles only
 - ☐ B. Cell division increases
 - ☐ C. Cell becomes more active
 - ☒ D. Enzymes digest the cell's own components

Q.41 Select the Venn diagram that best illustrates the relationship between the following classes.

Headgears, Helmets, Caps

Ans



Q.42 Exercise Varuna 2025 was conducted between India and which country?

- Ans
- ☐ A. Japan
 - ☐ B. Russia
 - ☐ C. USA
 - ☒ D. France

Q.43 20 people can do a piece of work in 15 days. After 5 days, 5 people left. How many more days will it take to complete the work? (Rounded off to two decimal places)

- Ans**
- ☐ A. 12.25 days
 - ☐ B. 14.15 days
 - ☒ C. 13.33 days
 - ☐ D. 10.5 days

Q.44 What should come in place of the question mark (?) in the given series based on the English alphabetical order?

XJI PBA HTS ZLK ?

- Ans**
- ☐ A. RED
 - ☐ B. TDS
 - ☒ C. RDC
 - ☐ D. RCD

Q.45 The ratio of prices of three gift articles is 2 : 5 : 8. If the difference of the prices of the second and third articles is ₹5,055, then find the sum of the prices of three articles.

- Ans**
- ☒ A. ₹25,275
 - ☐ B. ₹26,200
 - ☐ C. ₹31,500
 - ☐ D. ₹29,090

Q.46 An article is sold at a profit of 38%. If the cost price is increased by ₹68 and the selling price is reduced by ₹54, then the profit would be 37.5%. What is the original cost price (in ₹) of the article?

- Ans**
- ☒ A. 29,500
 - ☐ B. 29,400
 - ☐ C. 29,700
 - ☐ D. 29,300

Q.47 H, P, R, A, S and M are sitting around a circular table facing the centre. R is sitting second to the right of P and to the immediate left of H. S is sitting second to the left of M and to the immediate right of A. Who is sitting to the immediate left of P?

- Ans**
- ☐ A. M
 - ☒ B. S
 - ☐ C. A
 - ☐ D. H

Q.48 What will come in the place of '?' in the following equation, if '+' and '-' are interchanged and 'x' and '÷' are interchanged?

$$31 - 1 \times 2 \div 28 + 26 = ?$$

- Ans**
- ☐ A. 20
 - ☒ B. 19
 - ☐ C. 21
 - ☐ D. 17

Q.49 Find the area of a regular hexagon whose side measures $18\sqrt{2}$ cm. (Use $\sqrt{3} = 1.73$)

- Ans**
- ☒ A. 1681.56 cm²
 - ☐ B. 1691.56 cm²
 - ☐ C. 1671.56 cm²
 - ☐ D. 1661.56 cm²

Q.50 100 bananas were bought at the rate of ₹1,200 per hundred and were sold at a profit of ₹1,100. Find the selling price (in ₹) per dozen bananas.

- Ans**
- ☒ A. 281
 - ☒ B. 276
 - ☒ C. 271
 - ☒ D. 286

Q.51 What should come in place of ? in the given series?

57 65 81 113 177 ?

- Ans**
- ☒ A. 305
 - ☒ B. 306
 - ☒ C. 307
 - ☒ D. 304

Q.52 A goods train and a superfast train started running from station A and station B, respectively, at the same time towards each other on parallel tracks. If the distance between station A and station B is 154 km and trains are running at speeds of 61 km/h and 93 km/h, respectively, then at how much distance (in km) from station B will the trains meet?

- Ans**
- ☒ A. 88
 - ☒ B. 93
 - ☒ C. 112
 - ☒ D. 86

Q.53 Refer to the following series and answer the question that follows. Counting to be done from left to right. All numbers are single-digit numbers only.
(Left) 1 3 5 7 5 5 7 4 5 8 9 5 4 4 5 5 4 5 7 7 6 5 7 6 (Right)
How many such odd digits are there, each of which is immediately preceded by an even digit and also immediately followed by an odd digit?

- Ans**
- ☒ A. THREE
 - ☒ B. FOUR
 - ☒ C. ONE
 - ☒ D. FIVE

Q.54 LPG (Liquefied Petroleum Gas) is stored in cylinders in liquid form because:

- Ans**
- ☒ A. It reacts with air to form liquid
 - ☒ B. It is cooled and compressed under high pressure
 - ☒ C. It is solidified before use
 - ☒ D. It is heated and expanded under low pressure

Q.55 Tanisha starts from Point A and drives 68 km towards east. He then takes a left turn, drives 45 km, turns left and drives 78 km. He then takes a left turn and drives 71 km. He takes a final left turn, drives 10 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**
- ☒ A. 25 km to the north
 - ☒ B. 27 km to the south
 - ☒ C. 26 km to the north
 - ☒ D. 24 km to the north

Q.56 Each of G, J, M, O, R, S and T has an exam on a different day of a week, starting from Monday and ending on Sunday of the same week. Only two people have exams before R. Only one person has an exam after M. Only three people have exams between R and T. Only one person has an exam between S and G. J has an exam immediately before S. Who among the following has an exam on Friday?

- Ans**
- ☐ A. G
 - ☐ B. J
 - ☒ C. O
 - ☐ D. M

Q.57 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:

Some engineers are footballers.
All cricketers are footballers.

Conclusions:

(I) Some engineers are cricketers.
(II) All footballers are cricketers.

- Ans**
- ☐ A. Only conclusion (I) follows
 - ☐ B. Only conclusion (II) follows
 - ☒ C. Neither conclusion (I) nor (II) follows
 - ☐ D. Both conclusions (I) and (II) follow

Q.58 A shopkeeper fixes the marked price of an item 40% above its cost price. What percentage of discount should he offer to gain 26%?

- Ans**
- ☐ A. 12%
 - ☐ B. 9%
 - ☐ C. 0.11%
 - ☒ D. 10%

Q.59 What is the mode of the following data?

70, 70, 73, 71, 74, 69, 80, 68, 66, 66, 89, 83, 81, 86, 82, 74, 86, 87, 67, 72, 62, 76, 86, 65, 62

- Ans**
- ☐ A. 66
 - ☐ B. 70
 - ☒ C. 86
 - ☐ D. 74

Q.60 If 2 is added to each odd digit and 1 is subtracted from each even digit in the number 2741586, how many digits will appear more than once in the new number thus formed?

- Ans**
- ☐ A. One
 - ☐ B. None
 - ☒ C. Two
 - ☐ D. Three

Q.61 The sum of the present ages of Bunty and Bubbly is 64 years. After 2 years from now, Bunty's age will be three times that of Bubbly's age. Bunty's present age (in years) is:

- Ans**
- ☒ A. 49
 - ☐ B. 43
 - ☐ C. 39
 - ☐ D. 56

Q.62 Puja starts from Point A and drives 31 km towards the south. He then takes a left turn, drives 40 km, turns left and drives 36 km. He then takes a left turn and drives 41 km. He takes a final left turn, drives 5 km and stops at Point P. How far (shortest distance) and towards which direction should he drive in order to reach Point A again? (All turns are 90-degree turns only unless specified.)

- Ans**
- ☐ A. 2 km to the east
 - ☐ B. 3 km to the North
 - ☐ C. 4 km to the South
 - ☒ D. 1 km to the east

Q.63 A force acts on a 4 kg body at rest and produces an acceleration of 3 m/s². The final velocity after 5 seconds is:

- Ans**
- ☐ A. 20 m/s
 - ☐ B. 10 m/s
 - ☐ C. 12 m/s
 - ☒ D. 15 m/s

Q.64 A, B, C, D, E, F and G are sitting around a circular table, facing the centre. Only two people sit between D and G when counted from the right of D. Only two people sit between G and C. Only three people sit between D and B. E sits to the immediate left of A.

How many people sit between A and B when counted from the right of A?

- Ans**
- ☒ A. 1
 - ☐ B. 3
 - ☐ C. 2
 - ☐ D. 4

Q.65 Manan, Kiran, Aditi, Isha, Trisha and Arya 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 is numbered 6. Trisha lives immediately above Arya. Only one person lives between Arya and Aditi. Only two people live between Isha and Arya. Arya lives on an odd-numbered floor but not on the lowermost floor. Kiran lives immediately above Trisha. Who lives on floor number 2?

- Ans**
- ☐ A. Kiran
 - ☒ B. Manan
 - ☐ C. Aditi
 - ☐ D. Isha

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

(Left) P Q W T A V A B T A X H L T O K W L X T S (Right)

How many such vowels are there, each of which is immediately preceded by a consonant and also immediately followed by a vowel?

- Ans**
- ☒ A. None
 - ☐ B. Two
 - ☐ C. Three
 - ☐ D. One

Q.67 Which of the following is a type of 'urban local government' according to the Constitution of India?

- Ans**
- ☐ A. Gram Sabha
 - ☐ B. Zila Panchayat
 - ☒ C. Municipality
 - ☐ D. Block Panchayat

Q.68 A can complete a job in 10 days and B in 15 days. They started working together, but after 4 days, B fell sick and left. A continued and finished the remaining work. Later, it was found that A had also been working at only 80% efficiency throughout. How many total days did it take to complete the entire work?

- Ans**
- ☒ A. $9\frac{5}{6}$
 - ☒ B. $9\frac{1}{6}$
 - ☒ C. $5\frac{1}{6}$
 - ☒ D. $8\frac{1}{5}$

Q.69 What should come in place of the question mark (?) in the given series based on the English alphabetical order?

FVM ITK LRI OPG ?

- Ans**
- ☒ A. SNE
 - ☒ B. RNF
 - ☒ C. SNT
 - ☒ D. RNE

Q.70 What should come in place of the question mark (?) in the given series?
207 194 181 168 155 ?

- Ans**
- ☒ A. 147
 - ☒ B. 140
 - ☒ C. 145
 - ☒ D. 142

Q.71 EG 13 is related to FI 65 in a certain way. In the same way, JL 41 is related to KN 205. To which of the given options is RT 25 related, following the same logic?

- Ans**
- ☒ A. SU 135
 - ☒ B. PV 135
 - ☒ C. PU 145
 - ☒ D. SV 125

Q.72 A student's marks were incorrectly entered as 21 instead of 69. Due to this, the average marks of the class got decreased by $\frac{6}{5}$. What is the number of students in the class?

- Ans**
- ☒ A. 42
 - ☒ B. 50
 - ☒ C. 37
 - ☒ D. 40

Q.73 Each letter in the word DUSTING is changed to the letter immediately following 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**
- ☒ A. U
 - ☒ B. O
 - ☒ C. T
 - ☒ D. H

Q.74 If 'A' stands for '÷', 'B' stands for 'x', 'C' stands for '+' and 'D' stands for '-', what will come in place of the question mark (?) in the following equation?

13 A 43 B 43 C 1 D 43 = ?

- Ans**
- ☒ A. -28
 - ☒ B. -31
 - ☒ C. -29
 - ☒ D. -27

Q.75 In an election, there were four candidates, and they received 4500, 1260, 240 and 2000 votes, respectively. If all eligible voters voted, all votes polled were valid and were in favour of one of the four candidates, then the difference between the vote percentages of the winning candidate and the runner up candidate was:

- Ans**
- ☒ A. 31.25%
 - ☒ B. 25%
 - ☒ C. 27.5%
 - ☒ D. 30.75%

Railway BABA



रेल भर्ती बोर्ड / RAILWAY RECRUITMENT BOARDS

सी ई एन - ०१/२०२५ - CEN - 01/2025

सहायक लोको पायलट की भर्ती/ Recruitment of Assistant Loco Pilot



Test Date	18/02/2026
Test Time	9:00 AM - 10:00 AM
Subject	RRB ALP CBT 1

* 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 : RRB ALP

Q.1 Find the mean proportional between 49 and 64.

Ans ☒ A. 56

☐ B. 54

☐ C. 51

☐ D. 52

Q.2 If 'A' stands for '÷', 'B' stands for 'x', 'C' stands for '+' and 'D' stands for '-', what will come in place of the question mark (?) in the following equation?

$$79 \text{ D } 12 \text{ B } 4 \text{ C } 100 \text{ A } 5 = ?$$

Ans ☒ A. 51

☐ B. 55

☐ C. 53

☐ D. 50

Q.3 From a point within an equilateral triangle, perpendicular lines are drawn to its sides. The lengths of these perpendiculars are 5 m, 6 m, and 7 m. Find the area of the triangle.

Ans ☐ A. $105\sqrt{3}$ sq.m

☐ B. 98 sq.m

☒ C. $108\sqrt{3}$ sq.m

☐ D. 75 sq.m

Q.4 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 ☐ A. PM - OL

☒ B. TQ - KO

☐ C. MJ - LI

☐ D. VS - UR

Q.5 Pipe A can fill a tank three times as fast as another pipe B. If the two pipes working together can fill the tank in 36 minutes, then in what time will the slower pipe alone fill the tank?

- Ans**
- ☐ A. 108 minutes
 - ☐ B. 82 minutes
 - ☒ C. 144 minutes
 - ☐ D. 150 minutes

Q.6 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:

Some doctors are eagles.
No snakes are doctors.

Conclusions:

(I) Some eagles are not snakes.

(II) All eagles are doctors.

- Ans**
- ☐ A. Neither conclusion (I) nor (II) follows.
 - ☐ B. Only conclusion (II) follows.
 - ☐ C. Both conclusions (I) and (II) follow.
 - ☒ D. Only conclusion (I) follows.

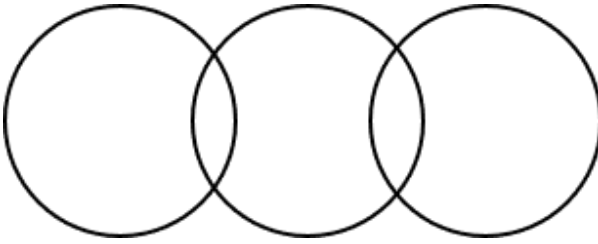
Q.7 The difference between the interior and exterior angles at a vertex of a regular polygon is 150° . The number of sides of the polygon is:

- Ans**
- ☐ A. 26
 - ☐ B. 20
 - ☒ C. 24
 - ☐ D. 22

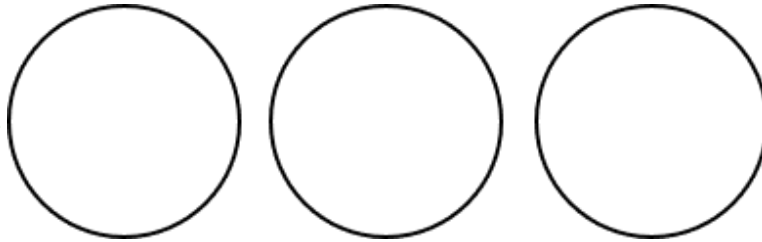
Q.8 Select the Venn diagram that best illustrates the relationship between the following classes.
Carrot, Apples, Lime

Ans

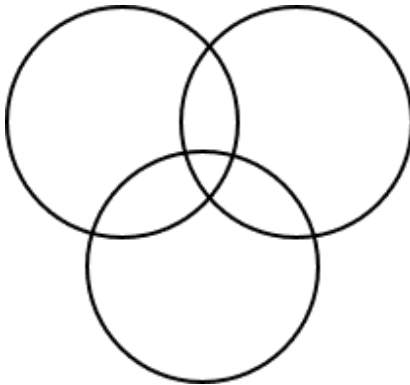
✗ A.



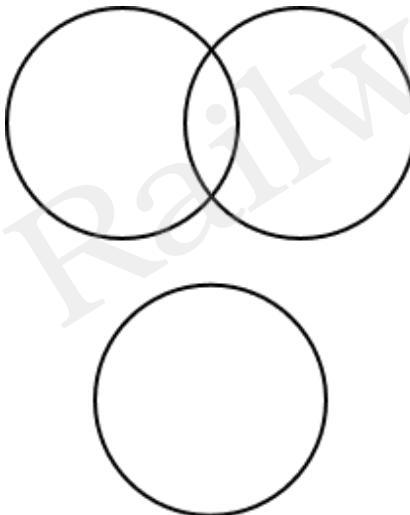
✓ B.



✗ C.



✗ D.



Q.9 Which of the following is correct regarding the quantity of stain retained by the cytoplasm in a temporary mount of onion peel?

Ans

✓ A. Very little stained

✗ B. Very high stained

✗ C. No stain

✗ D. Medium stained

Q.10 Simplify: $125 \div 25 \times 6 + 12 - 9$

Ans

✗ A. 28

✗ B. 23

✗ C. 36

✓ D. 33

Q.11 Swara starts from point P and walks for 8 m towards the north. Then she takes a right turn and walks for 5 m. Then, again, she takes a right turn and walks for 4 m. One more time she takes a right turn and walks for 10 m. Then she takes a left turn and walks for 4 m before stopping at point Q. Towards which direction should she walk in order to reach Point P again? (All turns are 90-degree turns only unless specified.)

- Ans**
- ☐ A. West
 - ☐ B. South
 - ☒ C. East
 - ☐ D. North

Q.12 Refer to the following letter series and answer the question that follows. Counting to be done from left to right only.
(Left) N E F M L C L T X X R X D G J A M Q F T Q (Right)
How many such consonants are there, each of which is immediately preceded by a consonant and also immediately followed by a vowel?

- Ans**
- ☒ A. One
 - ☐ B. Three
 - ☐ C. None
 - ☐ D. Two

Q.13 What should come in place of the question mark (?) in the given series?
108 103 97 90 82 73 ?

- Ans**
- ☐ A. 61
 - ☐ B. 67
 - ☒ C. 63
 - ☐ D. 65

Q.14 Select the pair which follows the same pattern as that followed by the two pairs given below. Both pairs follow the same pattern.

KFM : GCR
RMS : NJX

- Ans**
- ☒ A. MSU : IPZ
 - ☐ B. ORG : KNL
 - ☐ C. HOP : DJU
 - ☐ D. PST : KNY

Q.15 Shivam distributed ₹23400 between his two grandsons 14-year-old Rupesh and 15-year-old Mandar such that they get equal money when they turn 23 years old. Till then the money is in a bank getting compound interest at 8% per annum, compounded annually. How much (in ₹) Shivam deposited in the name of Mandar?

- Ans**
- ☒ A. 12150
 - ☐ B. 12500
 - ☐ C. 11250
 - ☐ D. 11000

Q.16 A is the brother of B. B is the son of C. M is married to B. Q is the only daughter of M. C is the sister of D. How is A related to C?

- Ans**
- ☐ A. Brother
 - ☐ B. Daughter
 - ☒ C. Son
 - ☐ D. Father

Q.17 What will come in the place of '?' in the following equation, if '+' and '-' are interchanged and 'x' and '÷' are interchanged?

$$6 \times 45 \div 15 + 8 - 13 = ?$$

- Ans ☒ A. 7
☐ B. 5
☐ C. 8
☐ D. 6

Q.18

The simplified value of $\left(\frac{\sqrt[3]{4913}}{\sqrt[4]{1296}}\right) \times \frac{3}{51} \times 168$ is

- Ans ☐ A. 30
☒ B. 28
☐ C. 26
☐ D. 38

Q.19 In the following number-pairs, the second number is obtained by applying certain mathematical operation(s) to the first number. Which numbers should replace X and Y, so that the pattern followed by the two numbers on the left side of :: is the same as that on the right side of ::?

(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 to/subtracting from/multiplying with 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

X : 24 :: 13 : Y

- Ans ☒ A. X = 12, Y = 26
☐ B. X = 7, Y = 130
☐ C. X = 8, Y = 36
☐ D. X = 8, Y = 130

Q.20 Lenses in spectacles help correct vision defects due to:

- Ans ☐ A. Reflection from mirrors
☐ B. Scattering of light
☐ C. Dispersion of light
☒ D. Refraction of light through lenses

Q.21 Three persons Amar, Akbar and Sunil start a business with the investments ₹15,600, ₹10,400 and ₹11,700, respectively. They got 20% of the total investment as profit and they planned to reinvest 5% of the profit. If the remaining profit is distributed in the ratio of their investments, then find the share of Sunil in the profit.

- Ans ☐ A. ₹3,247
☐ B. ₹2,845
☐ C. ₹4,225
☒ D. ₹2,223

Q.22 Which Act does the Digital Personal Data Protection Rules, 2025, facilitate the implementation of?

- Ans ☒ A. Digital Personal Data Protection Act, 2023
☐ B. Information Technology and Cybersecurity Act, 2023
☐ C. Digital Privacy Act, 2023
☐ D. Data Protection Act, 2023

Q.23 Each vowel in the word WICKED 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 new group of letters thus formed?

- Ans ☒ A. 1
☐ B. 3
☐ C. 2
☐ D. 0

Q.24 What sum (in ₹) will earn an interest of ₹480 in 2 years at 16% simple interest per year?

- Ans ☐ A. 1650
☐ B. 1700
☐ C. 1300
☒ D. 1500

Q.25 Each of N, K, J, R, P, S and M has an exam on a different day of a week starting from Monday and ending on Sunday of the same week. M has an exam on Wednesday. N has exam on the day immediately after S. Only 2 people have exams between P and R. K has exam on the day immediately before M. R's exam is neither on Sunday nor on Monday. J has exam on the day immediately before S. Who among the following has exam on Monday?

- Ans ☐ A. J
☐ B. K
☒ C. P
☐ D. M

Q.26 Refer to the following letter, symbol series and answer the question that follows.
Counting to be done from left to right only.
(Left) A & # W Z € % © H M O # \$ U £ F * H D € © H (Right)
How many such symbol are there, each of which is immediately preceded by a letter and also immediately followed by a letter?

- Ans ☐ A. 3
☒ B. 2
☐ C. 1
☐ D. 4

Q.27 In a certain code language,
'A + B' means 'A is the father of B',
'A - B' means 'A is the mother of B',
'A * B' means 'A is the sister of B' and
'A / B' means 'A is the brother of B'.
Based on the above, how is L related to N if 'P + L / R - N'?

- Ans ☐ A. Brother
☐ B. Mother's father
☐ C. Husband
☒ D. Mother's brother

Q.28 Seven people, J, K, L, M, N, O and P, are sitting around a circular table facing the centre. J sits third to the right of M and second to the left of N. K is an immediate neighbour of both M and N. O is second to the left of P. How many people sit between M and P when counted from the left of M?

- Ans ☒ A. Two
☐ B. Three
☐ C. One
☐ D. None

Q.29 In the following triads, each group of letters is related to the subsequent one following a certain logic. Select from the given options, the one which follows the same logic.

NOSE - ENOS - SENO
HAND - DHAN - NDHA

- Ans
- ☐ A. TREK - KRTE - EKTR
 - ☐ B. TREK - KRTE - ETKR
 - ☒ C. TREK - KTRE - EKTR
 - ☐ D. TREK - KTRE - ETKR

Q.30 Which of the following correctly describes lymph?

- Ans
- ☐ A. Fluid that flows only inside arteries
 - ☐ B. Fluid containing more proteins than blood plasma
 - ☐ C. Coloured fluid rich in red blood cells
 - ☒ D. Similar to plasma but colourless and low in proteins

Q.31 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.)

(4, 8, 36)
(3, 3, 18)

- Ans
- ☐ A. (11, 5, 49)
 - ☐ B. (15, 1, 32)
 - ☒ C. (5, 2, 21)
 - ☐ D. (6, 3, 28)

Q.32 The median of $\frac{3}{7}, \frac{3}{5}, \frac{11}{13}, \frac{14}{16}$ and $\frac{17}{19}$ is _____.

- Ans
- ☐ A. $\frac{14}{16}$
 - ☒ B. $\frac{11}{13}$
 - ☐ C. $\frac{3}{5}$
 - ☐ D. $\frac{17}{19}$

Q.33 What should come in place of the question mark (?) in the given series based on the English alphabetical order?

PTC KOX FJS AEN ?

- Ans
- ☐ A. VIZ
 - ☐ B. VSZ
 - ☐ C. VZS
 - ☒ D. VZI

Q.34 This question is based on the following words:
PAN BIT SOG RUB
In each of the words, each vowel 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. In how many letter-clusters thus formed, will no vowel appear?

Ans ☒ A. Two
☒ B. One
☒ C. None
☒ D. Three

Q.35 Among five people named V, W, X, Y and Z, each have a certain age. X is twice the age of V. V is three times the age of Y. Y is one-fifth the age of W. The age of W is 15. If Z's age is equal the age of X, what is the age of Z?

Ans ☒ A. 18
☒ B. 20
☒ C. 16
☒ D. 22

Q.36 A man buys a watch for ₹1,500. He sells it to his friend at a profit of 12% on his cost price. The friend then sells it to another person at a profit of 8% on his own cost price. What is the difference between the original cost price and the final selling price?

Ans ☒ A. ₹314.40
☒ B. ₹316.40
☒ C. ₹312.40
☒ D. ₹318.40

Q.37 Based on the English alphabetical order, three of the following four letter-clusters are alike in a certain way and thus form a group. Which letter-cluster DOES NOT belong to that group? (Note: The odd one out is not based on the number of consonants/vowels or their position in the letter-cluster.)

Ans ☒ A. QTV
☒ B. MPR
☒ C. FIL
☒ D. SVX

Q.38 A question is followed by two statements numbered (I) and (II). You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and select the most appropriate answer.

Question:

Among 5 poles, I, L, O, M and D each having a different height, which pole is the tallest?

Statements:

(I) I is shorter than L but taller than O.
(II) O is taller than M but shorter than D.

Ans ☒ A. Data in statement I alone is sufficient to answer the question while data in statement II is not.
☒ B. Data in both statements I and II together (and not statement I alone or statement II alone) are sufficient to answer the question.
☒ C. Data in both statements I and II together are not sufficient to answer the question.
☒ D. Data in statement II alone is sufficient to answer the question while data in statement I is not.

Q.39 Which of the given letter-number clusters will replace the question mark (?) in the following series to make it logically complete?

WDX14, CKD27, IRJ40, OYP53, ?

- Ans**
- ☒ A. FFV66
 - ☒ B. UFV66
 - ☒ C. UPV66
 - ☒ D. UFO66

Q.40 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**
- ☒ A. LP - KO
 - ☒ B. UY - TX
 - ☒ C. GK - FJ
 - ☒ D. RU - QV

Q.41 Below are given two sets of numbers. In each set of numbers, a certain mathematical operation on the first number results in the second number. Similarly, certain mathematical operation 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 – A two/three digit number cannot be broken into individual digits for operations e.g. if 37 is followed by 10, the operation cannot be 3+7 as a two digit number cannot be broken into individual digits)

2 - 10 - 20 - 25 ; 1 - 5 - 10 - 15

- Ans**
- ☒ A. 4 - 20 - 40 - 45
 - ☒ B. 5 - 25 - 50 - 60
 - ☒ C. 3 - 15 - 20 - 40
 - ☒ D. 9 - 45 - 90 - 105

Q.42 Seven people, A, B, C, D, E, F and G, are sitting in a row, facing north. Only F sits to the left of E. Only four people sit between F and G. Only B sits between D and A, and D is not an immediate neighbour of G. How many people live between C and D?

- Ans**
- ☒ A. 4
 - ☒ B. 3
 - ☒ C. 2
 - ☒ D. 1

Q.43 What should come in place of ? in the given series?

58 59 61 65 73 ?

- Ans**
- ☒ A. 86
 - ☒ B. 88
 - ☒ C. 89
 - ☒ D. 87

Q.44 If 'P' stands for 'x', 'Q' stands for '÷', 'R' stands for '-' and 'S' stands for '+', then what will come in place of the question mark (?) in the following equation?

13 P 7 R (45 Q 5) P 2 = ?

- Ans**
- ☒ A. 82
 - ☒ B. 34
 - ☒ C. 49
 - ☒ D. 73

Q.45 No matter where an object is placed in front of it, a concave lens always forms an image that is:

- Ans**
- ☒ A. Real, inverted, and enlarged
 - ☒ B. Virtual, erect, and diminished
 - ☒ C. Real, erect, and same size
 - ☒ D. Virtual, inverted, and enlarged

Q.46 The speed of a boat in still water is 8 km/hr. It can go 12 km upstream and 18 km downstream in 4 hours. Find the speed of the stream. (Rounded off up to two decimal places)

- Ans**
- ☒ A. 2.89 km/hr
 - ☒ B. 3.12 km/hr
 - ☒ C. 1.85 km/hr
 - ☒ D. 3.56 km/hr

Q.47 S, T, U, V, W, X and Y live on seven 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 is numbered 7. V lives on second floor. Only two persons live between V and U. X lives immediately below U. S lives immediately above T. Y does not live on the lowermost floor. On which floor number does Y live?

- Ans**
- ☒ A. Floor number 4
 - ☒ B. Floor number 3
 - ☒ C. Floor number 6
 - ☒ D. Floor number 7

Q.48 A student's marks were incorrectly entered as 35 instead of 99. Due to this, the average marks of the class got decreased by $\frac{8}{3}$. What is the number of students in the class?

- Ans**
- ☒ A. 34
 - ☒ B. 33
 - ☒ C. 28
 - ☒ D. 24

Q.49 The population of a town increased by 25% in the first year, then decreased by 20% in the second year and again increased by 10% in the third year. If the initial population was 50,000; find the population after 3 years.

- Ans**
- ☒ A. 57,000
 - ☒ B. 58,500
 - ☒ C. 55,000
 - ☒ D. 56,500

Q.50 A shopkeeper fixes the marked price of an item 56% above its cost price. What percentage of discount should he offer to gain 17%?

- Ans**
- ☒ A. 22%
 - ☒ B. 26%
 - ☒ C. 24%
 - ☒ D. 25%

Q.51 This question is based on the five, three-digit numbers given below.
(Left) 452 852 674 528 429 (Right)
(Example- 697 – First digit = 6, second digit = 9 and third digit = 7)
What will be the resultant if the second digit of the highest number is added to the second digit of the lowest number?

- Ans**
- ☒ A. 5
 - ☒ B. 8
 - ☒ C. 6
 - ☒ D. 7

Q.52 A rider travels 60 km at a speed of 30 km/h, then travels another 40 km at a speed of 20 km/h, and finally covers 50 km at 25 km/h. What is the average speed (in km/h) of the rider for the entire journey?

- Ans**
- ☒ A. 25
 - ☐ B. 21
 - ☐ C. 22
 - ☐ D. 26

Q.53 Refer to the following letter series and answer the question that follows. Counting to be done from left to right only.

(Left) K S U L H A A E G H L A J Z X G U P E U P H (Right)

How many such consonants are there, each of which is immediately preceded by a vowel and also immediately followed by a vowel?

- Ans**
- ☐ A. 3
 - ☐ B. 4
 - ☐ C. 2
 - ☒ D. 1

Q.54 Daniel starts from Point A and drives 23 km towards South. He then takes a left turn, drives 14 km, turns left and drives 27 km. He then takes a left turn and drives 23 km. He takes a final left turn, drives 4 km and stops at Point P. How far (shortest distance) and towards which direction should he drive in order to reach Point A again? (All turns are 90-degree turns only, unless specified.)

- Ans**
- ☐ A. 9 km to the west
 - ☐ B. 10 km to the east
 - ☒ C. 9 km to the east
 - ☐ D. 10 km to the west

Q.55 In a certain code language, 'HASP' is coded as '8294' and 'ASHY' is coded as '2879'. What is the code for 'Y' in the given code language?

- Ans**
- ☐ A. 2
 - ☐ B. 9
 - ☒ C. 7
 - ☐ D. 8

Q.56 Which of the following correctly describes the effect of consuming ethanol?

- Ans**
- ☐ A. Small amounts of absolute alcohol are safe, but diluted ethanol is always fatal
 - ☒ B. Small amounts of dilute ethanol cause drunkenness, whereas absolute alcohol can be lethal
 - ☐ C. Long-term consumption of diluted ethanol has no health impact on humans
 - ☐ D. Absolute alcohol in any amount causes minor intoxication without severe effects

Q.57 Refer to the following letter, symbol series and answer the question that follows. Counting to be done from left to right only.

(Left) * M © U Q £ Q £ @ © V € H B \$ W © I Q # U X (Right)

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

- Ans**
- ☐ A. 2
 - ☒ B. 3
 - ☐ C. 4
 - ☐ D. 5

Q.58 When the one-third of a number is increased by 83, the result is 97. Find the sum of the digits of the original number.

- Ans**
- ☐ A. 4
 - ☐ B. 8
 - ☒ C. 6
 - ☐ D. 7

Q.59 An article is sold at a profit of 40%. If the cost price is increased by ₹28 and the selling price is reduced by ₹84, then the profit would be 37.5%. What is the original cost price (in ₹) of the article?

- Ans**
- ☒ A. 4,900
 - ☐ B. 5,000
 - ☐ C. 4,700
 - ☐ D. 4,800

Q.60 Each of Abhi, Bhanu, Chetu, Devansh, Ekansh, Falak and Gyanu play a game on a different day of a week starting from Monday and ending on Sunday of the same week. Chetu plays the game on Friday. Ekansh plays immediately after Bhanu and Bhanu plays immediately after Devansh. Devansh does not play on Monday. Gyanu plays immediate before Falak. On which day does Abhi play the game?

- Ans**
- ☐ A. Thursday
 - ☐ B. Sunday
 - ☐ C. Wednesday
 - ☒ D. Monday

Q.61 Why does the palm feel cool when acetone is poured on it?

- Ans**
- ☐ A. Particles remain still and reflect the surrounding heat.
 - ☒ B. Particles absorb energy from the palm and evaporate.
 - ☐ C. Particles release energy to the palm and condense.
 - ☐ D. Particles expand and trap air between skin layers.

Q.62 What is the mode of the following data?

78, 60, 85, 76, 84, 86, 73, 89, 78, 77, 60, 63, 62, 72, 61, 78, 67, 77, 61, 78, 75, 61, 88, 66, 69

- Ans**
- ☐ A. 60
 - ☒ B. 78
 - ☐ C. 61
 - ☐ D. 77

Q.63 A question is followed by two statements numbered (I) and (II). You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and decide the appropriate answer.

Q. Four students – Ankita, Bhavna, Chitra, and Deepa – scored different marks.

Who scored the highest marks?

(I) Bhavna scored more than Ankita but less than Chitra.

(II) Deepa scored more than Bhavna but less than Chitra.

- Ans**
- ☐ A. Data in both statements I and II together are NOT sufficient to answer the question
 - ☒ B. Data in both statements I and II together (and not statement I alone or statement II alone) are sufficient to answer the question
 - ☐ C. Data in Statement I alone is sufficient to answer the question while data in Statement II is not
 - ☐ D. Data in Statement II alone is sufficient to answer the question while data in Statement I is not

Q.64 A car falls off a ledge and drops to the ground in 0.8 s. Take $g = 10 \text{ m/s}^2$ (for simplifying the calculations). How high is the ledge from the ground?

- Ans**
- ☐ A. 4.0 m
 - ☐ B. 2.0 m
 - ☐ C. 6.4 m
 - ☒ D. 3.2 m

Q.65 Which of the following hybridisation crossing is NOT used for the improvement in crop varieties?

- Ans**
- ☐ A. Intergeneric
 - ☒ B. Intraspecific
 - ☐ C. Interspecific
 - ☐ D. Intervarietal

Q.66 Triangle ABC is right angled at B. BD is an altitude on AC. If $AD = 5 \text{ cm}$ and $DC = 9 \text{ cm}$, what is the length (in cm) of BD?

- Ans**
- ☐ A. $2\sqrt{5}$
 - ☐ B. $4\sqrt{5}$
 - ☒ C. $3\sqrt{5}$
 - ☐ D. $\sqrt{5}$

Q.67 A can complete a task in 15 days, and B can complete the same task in 20 days. If both work together, how long will it take them to finish the task?

- Ans**
- ☐ A. $7\frac{4}{7}$ days
 - ☐ B. $5\frac{3}{7}$ days
 - ☐ C. $4\frac{3}{7}$ days
 - ☒ D. $8\frac{4}{7}$ days

Q.68 5% of a number is what percentage of 5% of the same number?

- Ans**
- ☐ A. 110%
 - ☐ B. 50%
 - ☒ C. 100%
 - ☐ D. 25%

Q.69 A shopkeeper marks an article 30% above its cost price. He then allows a discount of 20% on the marked price and still makes a profit of ₹32. Find the cost price of the article.

- Ans**
- ☐ A. 720
 - ☐ B. 700
 - ☐ C. 680
 - ☒ D. 800

Q.70 A, G, H, P, S and Y 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. Only two people live between Y and H. Only two people live between G and S. No one lives above G. H lives below S but above P. How many people live below A?

- Ans** ☒ A. Three
☐ B. One
☐ C. Two
☐ D. Four

Q.71 In a certain code language, 'BREW' is coded as '8135' and 'WEAR' is coded as '3915'. What is the code for 'A' in the given code language?

- Ans** ☐ A. 1
☐ B. 3
☐ C. 5
☒ D. 9

Q.72 Which of the following officially determines the constitutional validity of any legislation?

- Ans** ☐ A. The Parliament of India through a special resolution
☒ B. The Supreme Court of India through judicial review
☐ C. The President of India through constitutional discretion
☐ D. The Union Cabinet through executive interpretation

Q.73 Tarun and Varun start a business by investing ₹12,000 and ₹72,000, respectively. Tarun invests his money for 4 months and Varun for 10 months. At the end of the year, 20% of the total profit is ₹16,800. What is Varun's share of the profit (in ₹)?

- Ans** ☒ A. 78,750
☐ B. 76,550
☐ C. 78,250
☐ D. 76,350

Q.74 Select the pair which follows the same pattern as that followed by the two set of pairs given below. Both pairs follow the same pattern.

NLOR : RHKN
IQCS : MMYO

- Ans** ☐ A. KPNT : OLJQ
☒ B. JPZK : NLVG
☐ C. WDHY : AZEU
☐ D. XEPM : CALI

Q.75 Find the curved surface area (in cm^2) of a hemisphere of radius 125 cm.

- Ans** ☒ A. 31250π
☐ B. 31241π
☐ C. 31255π
☐ D. 31244π



रेल भर्ती बोर्ड / RAILWAY RECRUITMENT BOARDS

सी ई एन - ०१/२०२५ - CEN - 01/2025

सहायक लोको पायलट की भर्ती/ Recruitment of Assistant Loco Pilot



Test Date	18/02/2026
Test Time	12:30 PM - 1:30 PM
Subject	RRB ALP CBT 1

* 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 : RRB ALP

Q.1 21 is related to 83 following a certain logic. Following the same logic, 33 is related to 131. To which of the given options is 43 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 to/subtracting from/multiplying with 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

Ans ☒ A. 177
☒ B. 171
☐ C. 161
☐ D. 166

Q.2 DTWM is related to IXZO in a certain way based on the English alphabetic order. In the same way, KRHF is related to PVKH. To which of the given options is SLCO related, following the same logic?

Ans ☐ A. XPFR
☒ B. XPFQ
☐ C. YOFR
☐ D. YPFR

Q.3 8 men can complete a job in 20 days. 8 women can complete the same job in 32 days. In how many days will 5 men and 8 women together complete the same job?

Ans ☐ A. 22 days
☐ B. 20 days
☒ C. 16 days
☐ D. 18 days

Q.4 A, B, C, D, E, F and G live on seven 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 is numbered 7. Only one person lives above C. Only two persons live between G and C. Only one person lives between D and G, but D does not live on the lowermost floor. F lives immediately below E. Only two persons live between F and B. On which floor number does B live?

Ans ☒ A. Floor number 4
☐ B. Floor number 2
☐ C. Floor number 3
☐ D. Floor number 5

Q.5 Since the mass of the Moon is less than that of the Earth, what can be said about the weight of an object on the Moon compared to its weight on Earth?

- Ans
- ☐ A. Zero on the Moon
 - ☐ B. Greater on the Moon
 - ☒ C. Less on the Moon
 - ☐ D. Same on both

Q.6 Amita walks towards north for 5 m from point A. Then she takes a right turn and walks for 8 m. Then, again, she takes a right turn and walks for 3 m. Once again, she takes a right turn and walks for 2 m. Then she takes a left turn and walk for 2 m and stops at point B. Towards which direction should she walk in order to reach point A again? (All turns are 90-degree turns only unless specified.)

- Ans
- ☒ A. West
 - ☐ B. East
 - ☐ C. South
 - ☐ D. North

Q.7 Refer to the following series and answer the question that follows. Counting to be done from left to right. All numbers are single-digit numbers only.
(Left) 3 5 6 3 4 6 4 3 1 5 7 6 8 6 3 1 3 6 7 8 9 7 5 (Right)
How many such odd digits are there, each of which is immediately preceded by an even digit and also immediately followed by an odd digit?

- Ans
- ☐ A. TWO
 - ☒ B. THREE
 - ☐ C. FOUR
 - ☐ D. NONE

Q.8 Karan and Arjun start a business by investing ₹45,000 and ₹50,000, respectively. Karan invests his money for 4 months and Arjun for 10 months. At the end of the year, 20% of the total profit is ₹30,600. What is Arjun's share of the profit (in ₹)?

- Ans
- ☐ A. 1,14,600
 - ☐ B. 1,14,250
 - ☒ C. 1,12,500
 - ☐ D. 1,12,350

Q.9 Three partners, Alex, Ben, and Chris, invest in a startup. Alex invests ₹30,000, Ben invests ₹45,000, and Chris invests ₹60,000. After one year, the profit is ₹27,000. What is Alex's share in the profit?

- Ans
- ☐ A. ₹5,000
 - ☐ B. ₹5,200
 - ☐ C. ₹5,800
 - ☒ D. ₹6,000

Q.10 What should come in place of the question mark (?) in the given series based on the English alphabetical order?

KEV CWN UOF MGX ?

- Ans
- ☒ A. EYP
 - ☐ B. EDS
 - ☐ C. EPY
 - ☐ D. ERT

Q.11 Each of A, B, C, D, E, F and G play a game on a different day of a week starting from Monday and ending on Sunday of the same week. C plays the game on Friday. Only one person plays between C and B but B does not play on the last day. A plays immediately before D but D does not play on the last day. F plays immediately after G. On which day does E play the game?

- Ans**
- ☐ A. Sunday
 - ☐ B. Tuesday
 - ☒ C. Thursday
 - ☐ D. Saturday

Q.12 Rajan starts from Point A and drives 51 km towards east. He then takes a right turn, drives 56 km, turns right and drives 56 km. He then takes a right turn and drives 63 km. He takes a final right turn, drives 5 km and stops at Point P. How far (shortest distance) and towards which direction should he drive in order to reach Point A again? (All turns are 90 degrees turns only unless specified)

- Ans**
- ☐ A. 8 km to the south
 - ☐ B. 9 km to the north
 - ☒ C. 7 km to the south
 - ☐ D. 10 km to the north

Q.13 DM3 is related to LU27 in a certain way. In the same way, AR12 is related to IZ1728. To which of the given options is DK13 related, following the same logic?

- Ans**
- ☒ A. LS2197
 - ☐ B. MS1019
 - ☐ C. MR169
 - ☐ D. LR507

Q.14 Thicker muscular walls are present in the ventricles of the heart due to which of the following reasons?

- Ans**
- ☐ A. To store blood before it enters the atria
 - ☒ B. To pump blood with high pressure
 - ☐ C. To receive blood from the body and lungs
 - ☐ D. To control heartbeat and rhythm

Q.15 A question is followed by two statements numbered (I) and (II). You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and select the most appropriate answer.

Question:

Among 5 poles, I, L, O, M and D each having a different height, which pole is the tallest?

Statements:

(I) I is taller than only two poles. L is taller than D and no pole has height between L and D.

(II) M is taller than D.

- Ans**
- ☒ A. Data in both statements I and II together are not sufficient to answer the question.
 - ☐ B. Data in both statements I and II together (and not statement I alone or statement II alone) are sufficient to answer the question.
 - ☐ C. Data in statement II alone is sufficient to answer the question while data in statement I is not.
 - ☐ D. Data in statement I alone is sufficient to answer the question while data in statement II is not.

Q.16 A trader mixes two varieties of rice, A and B, in the ratio 3 : 5 by weight. He sells the mixture at a price such that he gains 20% on rice A and incurs a loss of 10% on rice B. If the overall profit on the mixture is 8%, find the ratio of the cost prices per kg of rice A to rice B.

- Ans**
- ☐ A. 4:3
 - ☐ B. 3:4
 - ☐ C. 2:5
 - ☒ D. 5:2

Q.17 The distances between the points A, B and C are such that AB = 180 km and BC = 240 km. A traveler goes from A to B at 45 km/h, from B to C at 60 km/h, returns from C to B at 40 km/h, and finally from B to A at 30 km/h. Find the average speed (in km/h) for the entire journey.

- Ans ☒ A. 45
☒ B. 42
☒ C. 41
☒ D. 51

Q.18 Find the mean proportional between 36 and 81.

- Ans ☒ A. 45
☒ B. 48
☒ C. 52
☒ D. 54

Q.19 A trader marks a product at ₹2,000. He offers two successive discounts of 20% and 10% to a customer. Find the single equivalent discount percentage and the selling price of the product.

- Ans ☒ A. 30%, ₹1,740
☒ B. 25%, ₹1,540
☒ C. 20%, ₹1,640
☒ D. 28%, ₹1,440

Q.20 Refer to the following letter series and answer the question that follows. Counting to be done from left to right only.

(Left) U N M K L P E C S X D F Y U M U T E W X Z S E Q A Z S I O P L M J (Right)

How many such consonants are there that are immediately preceded by a vowel and immediately followed by a consonant?

- Ans ☒ A. 5
☒ B. 3
☒ C. 6
☒ D. 4

Q.21 In onion peel and human cheek cells, the lightly stained region enclosed by the cell membrane is called:

- Ans ☒ A. Vacuole
☒ B. Nucleus
☒ C. Cytoplasm
☒ D. Cell wall

Q.22 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 farmers are graduates.

All graduates are employees.

Conclusions:

(I) Some employees are graduates.

(II) All farmers are employees.

- Ans ☒ A. Only conclusion (I) follows
☒ B. Both conclusions (I) and (II) follow
☒ C. Neither conclusion (I) nor (II) follows
☒ D. Only conclusion (II) follows

Q.23 In a certain code language,
'A + B' means 'A is the wife 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 brother of B'.
Based on the above, how is W related to E if 'W - Q * F * E'?

- Ans**
- ☐ A. Father's brother
 - ☐ B. Mother
 - ☐ C. Daughter
 - ☒ D. Father's sister

Q.24 A man goes from place A to B at a speed of 12 km/h and returns from B to A at a speed of 3 km/h using the same route. The average speed (km/h) for the whole journey is:

- Ans**
- ☐ A. $5\frac{4}{5}$
 - ☒ B. $4\frac{4}{5}$
 - ☐ C. $6\frac{4}{5}$
 - ☐ D. $7\frac{4}{5}$

Q.25 What will come in the place of '?' in the following equation, if '+' and '-' are interchanged and 'x' and '÷' are interchanged?

$$18 - 36 \div 10 \times 20 + 34 = ?$$

- Ans**
- ☐ A. 3
 - ☒ B. 2
 - ☐ C. 4
 - ☐ D. 0

Q.26 A student's marks were incorrectly entered as 70 instead of 91. Due to this, the average marks of the class got decreased by $\frac{7}{4}$. What is the number of students in the class?

- Ans**
- ☐ A. 3
 - ☒ B. 9
 - ☐ C. 8
 - ☐ D. 17

Q.27 Seven people, J, K, L, M, N, O and P, are sitting in a row, facing north. Only three people sit to the right of J. Only two people sit to the left of P. K sits third to the right to P. M sits to the immediate left of P. Only three people sit between L and O. O does not sit to the immediate left of M. Who sits to the immediate left of P?

- Ans**
- ☐ A. K
 - ☒ B. M
 - ☐ C. O
 - ☐ D. J

Q.28 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'.

Based on the above, how is D related to R if 'D # M + S @ P - R'?

- Ans**
- ☐ A. Brother's daughter
 - ☒ B. Father's brother's daughter
 - ☐ C. Father's daughter
 - ☐ D. Father's brother's wife

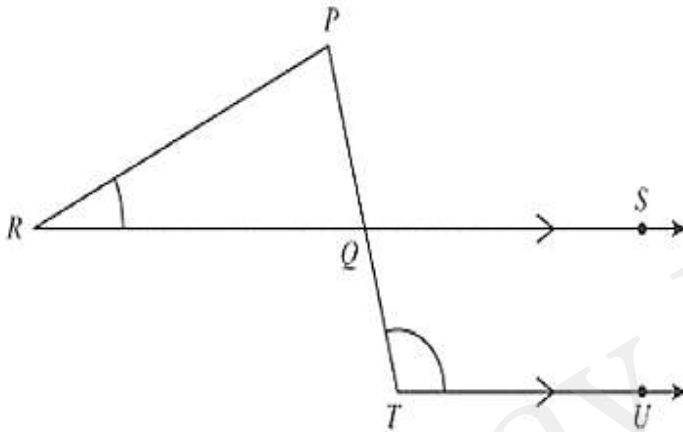
Q.29 Among the following, which structure is cup shaped at one end of coiled tube in kidney?

- Ans
- ☐ A. Collecting duct
 - ☐ B. Loop of Henley
 - ☒ C. Bowman's capsule
 - ☐ D. Glomerulus

Q.30 A metal object exposed to a humid environment starts corroding. Which of the following methods would be the most effective and long-lasting in preventing corrosion?

- Ans
- ☐ A. Applying a single coat of paint
 - ☒ B. Coating with a more reactive metal like zinc
 - ☐ C. Wrapping the metal with a dry cloth to prevent moisture exposure
 - ☐ D. Periodically wiping the surface with oil

Q.31 In the following figure, $RS \parallel TU$. Find the value of $\angle PQR - \angle PRQ$, if $\angle QTU + \angle PRQ = 130^\circ$ and $\angle RPQ = 80^\circ$.



- Ans
- ☒ A. 50°
 - ☐ B. 65°
 - ☐ C. 70°
 - ☐ D. 45°

Q.32 What should come in place of the question mark (?) in the given series based on the English alphabetical order?

TKB ULG VML WNQ ?

- Ans
- ☐ A. YQW
 - ☐ B. XQW
 - ☐ C. YOX
 - ☒ D. XOY

Q.33 In two triangles, $\triangle ABC \sim \triangle PQR$, $AB=12\text{cm}$ and $PQ=4\text{cm}$, if AL and PM are altitudes of the respected triangles, then what will be AL:PM?

- Ans
- ☐ A. 1:3
 - ☒ B. 3:1
 - ☐ C. 2:3
 - ☐ D. 2:1

- Q.34** In this question, a question is followed by two statements numbered (I) and (II). You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and decide the appropriate answer.
Among the five poles—I, N, C, H, and L—each having a different height, which pole is the shortest?
(I) C is taller than only two poles. I is shorter than C and N is shorter than I.
(II) H is taller than L.
- Ans** ☒ A. Data in statement I alone is sufficient to answer the question while data in statement II is not
☒ B. Both statements I and II together are NOT sufficient to answer the question
☒ C. Both statements I and II together (and not statement I alone or statement II alone) are sufficient to answer the question
☒ D. Data in statement II alone is sufficient to answer the question while data in statement I is not

- Q.35** Refer to the following letter series and answer the question that follows. Counting to be done from left to right only.

(Left) B V J W N U Y N G N R O N R K C G N J W A (Right)

How many such vowels are there, each of which is immediately preceded by a consonant and also immediately followed by a vowel?

- Ans** ☒ A. None
☒ B. Three
☒ C. Two
☒ D. One

- Q.36** 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 its constituent digits. E.g. 13 – Operations on 13 such as adding / subtracting / multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

14 - 26
32 - 44

- Ans** ☒ A. 29 - 41
☒ B. 40 - 54
☒ C. 56 - 69
☒ D. 70 - 83

- Q.37** Which award, one of India's highest honours in the livestock and dairy sector, was announced in November 2025?

- Ans** ☒ A. Rajyotsava Awards
☒ B. CII Quality Ratna Award
☒ C. National Gopal Ratna Awards
☒ D. Padma Shri

- Q.38** 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:

Some Indians are Americans.
Some Americans are Russians.

Conclusions:

(I) No Russian is an American.
(II) All Indians are Russians.

- Ans** ☒ A. Only conclusion (I) follows.
☒ B. Only conclusion (II) follows.
☒ C. Neither conclusion (I) nor (II) follows.
☒ D. Both conclusions (I) and (II) follow.

Q.39 Seven people, A, B, C, D, E, F and G, are sitting around a circular table facing the centre. E sits second to the left of A. G sits third to the right of E and second to the left of C. F sits third to left of B. How many people sit between C and A when counted from the left of C?

- Ans**
- ☒ A. Two
 - ☐ B. None
 - ☐ C. One
 - ☐ D. Three

Q.40 On a certain sum, if at the same rate of interest, in 2 years, the simple interest is ₹64 and the compound interest is ₹80, then what is the sum (in ₹)?

- Ans**
- ☐ A. 68
 - ☐ B. 57
 - ☒ C. 64
 - ☐ D. 59

Q.41 41 is related to 165 following a certain logic. Following the same logic, 18 is related to 73. To which of the given options is 122 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**
- ☒ A. 489
 - ☐ B. 492
 - ☐ C. 495
 - ☐ D. 487

Q.42 Simplify:
$$\frac{0.8 \times 0.8 \times 0.8 - 0.08 \times 0.08 \times 0.08}{8 \times 8 \times 8}$$

- Ans**
- ☒ A. 0.000999
 - ☐ B. 0.0000999
 - ☐ C. 0.0999
 - ☐ D. 0.00999

Q.43 In a certain code language, 'CROW' is coded as '2916' and 'WORK' is coded as '6152'. What is the code for 'K' in the given code language?

- Ans**
- ☐ A. 6
 - ☐ B. 1
 - ☒ C. 5
 - ☐ D. 2

Q.44 Based on the English alphabetical order, three of the following four letter-cluster pairs are alike in a certain way and thus form a group. Which 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**
- ☐ A. HL-JN
 - ☒ B. NR-OV
 - ☐ C. MQ-OS
 - ☐ D. TX-VZ

Q.45 Select the pair which follows the same pattern as that followed by the two pairs given below. Both pairs follow the same pattern.

GPI : IMK
NQJ : PNL

- Ans ☒ A. CZS : EWU
☐ B. SRL : UOM
☐ C. KKE : MHF
☐ D. AVU : CRW

Q.46 What is the mode of the following data?

70, 79, 66, 89, 68, 80, 82, 80, 71, 84, 69, 68, 61, 85, 71, 84, 68, 86, 73, 75, 83, 88, 64, 88, 65

- Ans ☐ A. 80
☐ B. 88
☐ C. 71
☒ D. 68

Q.47 A shopkeeper bought six identical mobile phones for ₹ 72000, and sold two of them for ₹ 72000. Find his gain percentage.

- Ans ☒ A. 200%
☐ B. 203%
☐ C. 1.97%
☐ D. 201%

Q.48 A car falls off a ledge and drops to the ground in 0.6 s. Take $g = 10 \text{ m/s}^2$. What is the car's speed on striking the ground?

- Ans ☐ A. 10 m/s
☐ B. 3 m/s
☐ C. 12 m/s
☒ D. 6 m/s

Q.49 The price of an article was ₹1700. It increased by 5% in the first year and by 20% in the second year. What is the price (in ₹) of the article after two years?

- Ans ☐ A. 1885
☐ B. 2040
☒ C. 2142
☐ D. 2125

Q.50 The lifetime of certain species is given in the following table. Calculate the modal lifetime (rounded up to one decimal place) in days.

Lifetime (days)	0-10	10-20	20-30	30-40	40-50	50-60
Frequency	10	35	52	61	38	29

- Ans ☐ A. 29
☐ B. 40
☐ C. 36.5
☒ D. 32.8

Q.51 Among five people named V, W, X, Y and Z, each have a certain age. X is thrice the age of V. The age of V is 12. Y is half the age of Z. W is twice the age of Y. If Z's age is equal to the age of X, what is the age of W?

- Ans ☐ A. 35
☒ B. 36
☐ C. 42
☐ D. 54

Q.52 What sum (in ₹) will earn an interest of ₹460 in 4 years at 5% simple interest per year?

- Ans
- ☐ A. 2500
 - ☒ B. 2300
 - ☐ C. 2450
 - ☐ D. 2100

Q.53 Two pipes, A and B, can fill a water tank in 1 hour and $1\frac{1}{2}$ hours, respectively. Pipe A is opened. After 15 minutes without closing it, pipe B is also opened. How much more time will both the pipes take to fill the tank?

- Ans
- ☒ A. 27 minutes
 - ☐ B. 24 minutes
 - ☐ C. 30 minutes
 - ☐ D. 25 minutes

Q.54 The apparent random wavering or flickering of objects seen through a turbulent stream of hot air rising above a fire or a radiator is due to:

- Ans
- ☐ A. Diffraction of light
 - ☐ B. Dispersion of light
 - ☒ C. Atmospheric refraction of light
 - ☐ D. Reflection of light

Q.55 The sum of the present ages of Kamlesh and Prathmesh is 52 years. After 2 years from now, Kamlesh's age will be three times that of Prathmesh's age. Kamlesh's present age (in years) is:

- Ans
- ☐ A. 32
 - ☒ B. 40
 - ☐ C. 36
 - ☐ D. 34

Q.56 If 'P' stands for '×', 'Q' stands for '÷', 'R' stands for '−' and 'S' stands for '+', then what will come in place of the question mark (?) in the following equation?

$$(60 \text{ Q } 4) \text{ P } 6 \text{ R } 10 \text{ P } 3 = ?$$

- Ans
- ☒ A. 60
 - ☐ B. 40
 - ☐ C. 80
 - ☐ D. 45

Q.57 4% of a number is approximately what percentage of 18% of the same number?

- Ans
- ☐ A. 18.18%
 - ☒ B. 22.22%
 - ☐ C. 450%
 - ☐ D. 9.09%

Q.58 If $2^a = 32$, $b^4 = 81$, and $b > 0$, then what is the value of a^b ?

- Ans
- ☐ A. 216
 - ☐ B. 64
 - ☒ C. 125
 - ☐ D. 27

Q.59 If 'A' stands for '+', 'B' stands for 'x', 'C' stands for '+' and 'D' stands for '-', what will come in place of the question mark (?) in the following equation?

$$75 \text{ C } 112 \text{ A } 7 \text{ B } 4 \text{ D } 40 = ?$$

- Ans
- ☒ A. 99
 - ☐ B. 94
 - ☐ C. 97
 - ☐ D. 98

Q.60 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
- ☐ A. IJ-KL
 - ☒ B. AB-CA
 - ☐ C. EF-GH
 - ☐ D. MN-OP

Q.61 Each of T, R, O, U, B, L and E has an exam on a different day of a week starting from Monday and ending on Sunday of the same week. Only three people have exam between L and T. Only three people have exam between U and O. B has exam on some day before E and on some day after R. Only O has exam after T. How many people have exam after B?

- Ans
- ☐ A. Two
 - ☒ B. Three
 - ☐ C. Four
 - ☐ D. One

Q.62 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
- ☒ A. MRY
 - ☐ B. JOU
 - ☐ C. QVB
 - ☐ D. DIO

Q.63 Seven boxes, M, N, O, P, Q, R and S, are kept one over the other but not necessarily in the same order. O is kept third from the top. Only two boxes are kept between O and Q. P is kept immediately above Q. M is kept immediately below R. N is not kept at the lowermost position. Which box is fourth from the bottom?

- Ans
- ☐ A. Q
 - ☐ B. P
 - ☒ C. N
 - ☐ D. M

Q.64 A cylindrical rod has an outer curved surface area of 7500 cm^2 . If the length of the rod is 92 cm, then the outer radius (in cm) of the rod, rounded off to two places of decimal, is:

$$\left(\text{Take } \pi = \frac{22}{7} \right)$$

- Ans
- ☐ A. 13.11
 - ☐ B. 14.12
 - ☐ C. 11.65
 - ☒ D. 12.97

Q.65 A shopkeeper sells an item for ₹689.7 after giving two successive discounts of 75% and 34% on its marked price. Had he not given any discount, he would have earned a profit of 76%. What is the cost price (in ₹) of the item?

- Ans**
- ☒ A. 2,375
 - ☐ B. 2,397
 - ☐ C. 2,359
 - ☐ D. 2,333

Q.66 What should come in place of the question mark (?) in the given series?
192 185 198 191 204 197 210 ?

- Ans**
- ☐ A. 205
 - ☐ B. 201
 - ☐ C. 206
 - ☒ D. 203

Q.67 Each vowel in the word PRINTED 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. Which of the following letters will be third from the left in the new group of letters thus formed?

- Ans**
- ☒ A. J
 - ☐ B. S
 - ☐ C. M
 - ☐ D. F

Q.68 The Attorney General of India is the highest law officer of the country appointed by whom?

- Ans**
- ☐ A. The seniormost Judge of Supreme Court
 - ☒ B. The President of India
 - ☐ C. The Prime Minister of India
 - ☐ D. The Chief Justice of India

Q.69 Refer to the following letter series and answer the question that follows. Counting to be done from left to right only.

(Left) Y D A U L K E I C B A O O A N M I Q F U E L (Right)

How many such consonants are there, each of which is immediately preceded by a consonant and also immediately followed by a vowel?

- Ans**
- ☐ A. 4
 - ☐ B. 8
 - ☒ C. 5
 - ☐ D. 7

Q.70 What should come in place of ? in the given series?

56 68 87 113 146 ?

- Ans**
- ☐ A. 188
 - ☐ B. 185
 - ☐ C. 187
 - ☒ D. 186

Q.71 In a certain code language, 'HALT' is coded as '6928' and 'GHAT' is coded as '4862'. What is the code for 'G' in the given code language?

- Ans**
- ☐ A. 6
 - ☐ B. 8
 - ☒ C. 4
 - ☐ D. 2

Q.72 Refer to the following number, symbol series and answer the question. Counting to be done from left to right only. All numbers are single-digit numbers.
(Left) @ 8 1 < 2 + + > 6 # \ * 7 & + * * 3 3 \$ 2 (Right)
How many such numbers are there each of which is immediately preceded by a symbol and also immediately followed by a symbol?

- Ans**
- ☐ A. Two
 - ☐ B. One
 - ☒ C. Three
 - ☐ D. None

Q.73 What property of gases allows them to fill any container completely?

- Ans**
- ☐ A. Particles remain fixed and cannot move easily.
 - ☒ B. Particles move freely and have negligible attraction.
 - ☐ C. Particles occupy definite volume and definite shape.
 - ☐ D. Particles form strong bonds with container walls.

Q.74 Refer to the following number and symbol series and answer the question that follows.
(All numbers are single-digit numbers only.)

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

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

- Ans**
- ☒ A. 8
 - ☐ B. 7
 - ☐ C. 1
 - ☐ D. 4

Q.75 A number of 512 identical small spheres are cast from a sphere of radius 40 cm, with the total volume of the small spheres being equal to the volume of the larger sphere. The diameter (in cm) of each of the small spheres is:

- Ans**
- ☐ A. 6
 - ☐ B. 15
 - ☒ C. 10
 - ☐ D. 14



रेल भर्ती बोर्ड / RAILWAY RECRUITMENT BOARDS

सी ई एन - ०१/२०२५ - CEN - 01/2025

सहायक लोको पायलट की भर्ती/ Recruitment of Assistant Loco Pilot



Test Date	18/02/2026
Test Time	4:00 PM - 5:00 PM
Subject	RRB ALP CBT 1

* 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 : RRB ALP

Q.1 Refer to the following letter, symbol series and answer the question that follows.

Counting to be done from left to right only.

(Left) I A & @ @ # X % A N * @ W U # P \$ U X & K Y (Right)

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

- Ans
- ☒ A. 4
 - ☒ B. 1
 - ☒ C. 3
 - ☒ D. 2

Q.2 During the chlor-alkali process, which of the following statements is correct regarding the products formed at different electrodes?

- Ans
- ☒ A. Hydrogen gas is released at the cathode and chlorine gas at the anode.
 - ☒ B. Chlorine gas is released at the cathode and hydrogen gas at the anode.
 - ☒ C. Sodium hydroxide is formed at the anode and chlorine gas at the cathode.
 - ☒ D. Sodium hydroxide and hydrogen gas both form at the anode.

Q.3 A sum of money triples itself at a certain rate of compound interest in 3 years. In how many years will it amount to 9 times of itself?

- Ans
- ☒ A. 12 years
 - ☒ B. 10 years
 - ☒ C. 6 years
 - ☒ D. 3 years

Q.4 Chahak starts from point A and walks for 6 m towards the south. Then she takes a left turn and walks for 5 m. Then she takes a left turn again and walks for 9 m. Once again, she takes a left turn and walks for 2 m. At last, she takes one more left turn and walks for 3 m. And she stops at point B. Towards which direction should she walk in order to reach point A again? (All turns are 90-degree turns only unless specified.)

- Ans
- ☒ A. North
 - ☒ B. East
 - ☒ C. South
 - ☒ D. West

Q.5 The cost price of 28 mangoes is the same as the selling price of 25 mangoes. Find the profit percentage.

- Ans**
- ☒ A. 12%
 - ☐ B. 11.6%
 - ☐ C. 10.9%
 - ☐ D. 10%

Q.6 A shopkeeper marks an article at ₹x and offers a discount of 65% on it. He sells it for ₹378 after charging VAT of 44% on the discounted price. What is the value of x?

- Ans**
- ☐ A. 900
 - ☐ B. 1,000
 - ☒ C. 750
 - ☐ D. 700

Q.7 In a certain code language,

'A + B' means 'A is the mother 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'.

Based on the above, how is P related to T, if 'P × Q ÷ S – R + T'?

- Ans**
- ☐ A. Father's sister
 - ☐ B. Father's mother
 - ☒ C. Mother's mother
 - ☐ D. Mother's sister

Q.8 Refer to the following series and answer the question (All numbers are single digit numbers only. Counting to be done from left to right.)
(Left) 1 8 4 6 1 8 6 4 4 3 3 2 1 1 8 8 6 7 4 6 8 8 4 5 9 9 4 (Right)
How many such even numbers are there each of which is immediately preceded by an odd number and also immediately followed by an odd number?

- Ans**
- ☒ A. 1
 - ☐ B. 2
 - ☐ C. 3
 - ☐ D. 0

Q.9 A, B, C, D, E, F and G are sitting around a circular table, facing the centre. Only two people sit between B and G when counted from the left of G. D sits third to the left of A. E sits to the immediate right of A. E sits second to the left of B. C is an immediate neighbour of D.
How many people sit between C and E when counted from the right of C?

- Ans**
- ☒ A. 2
 - ☐ B. 1
 - ☐ C. 3
 - ☐ D. 4

Q.10 What should come in place of the question mark (?) in the given series?
57 68 79 90 101 ?

- Ans**
- ☐ A. 114
 - ☒ B. 112
 - ☐ C. 108
 - ☐ D. 110

Q.11 A sound wave has a frequency of 4 kHz and a wavelength of 25 cm. How much time will it take to travel a distance of 2.5 km?

- Ans
- ☐ A. 2.6 s
 - ☐ B. 2.2 s
 - ☐ C. 2.0 s
 - ☒ D. 2.5 s

Q.12 What should come in place of the question mark (?) in the given series based on the English alphabetical order?
ILT LOW ORZ RUC ?

- Ans
- ☐ A. UFX
 - ☐ B. UFF
 - ☐ C. UDE
 - ☒ D. UXF

Q.13 What will come in the place of '?' in the following equation, if '+' and '-' are interchanged and 'x' and '÷' are interchanged?

$$28 \times 2 - 4 \div 24 + 41 = ?$$

- Ans
- ☐ A. 68
 - ☐ B. 71
 - ☐ C. 70
 - ☒ D. 69

Q.14 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 its constituent digits. E.g. 13 – Operations on 13 such as adding / subtracting / multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed).

2 - 5
10 - 101

- Ans
- ☒ A. 5 - 26
 - ☐ B. 4 - 18
 - ☐ C. 9 - 80
 - ☐ D. 8 - 63

Q.15 A question is followed by two statements numbered (I) and (II). You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and decide the appropriate answer.

**Q. Four runners – Ravi, Sahil, Tarun, and Uday – run at different speeds.
Who is the fastest?**

- (I) Tarun runs faster than Ravi but slower than Sahil.
(II) Uday runs slower than Sahil but faster than Tarun.

- Ans
- ☐ A. Data in Statement I alone is sufficient to answer the question while data in Statement II is not
 - ☒ B. Data in both statements I and II together (and not statement I alone or statement II alone) are sufficient to answer the question
 - ☐ C. Data in Statement II alone is sufficient to answer the question while data in Statement I is not
 - ☐ D. Data in both statements I and II together are NOT sufficient to answer the question

Q.16 Transportation of water in plants takes place through _____.

- Ans
- ☒ A. Xylem
 - ☐ B. Phloem
 - ☐ C. Sclerenchyma
 - ☐ D. Parenchyma

Q.17 What should come in place of the question mark (?) in the given series based on the English alphabetical order?

CMA GQF KUK OYP ?

- Ans ☒ A. SCU
☐ B. RMU
☐ C. SCA
☐ D. SMU

Q.18 Below are given two sets of numbers. In each set of numbers, a certain mathematical operation on the first number results in the second number. Similarly, certain mathematical operation 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 – A two/three digit number cannot be broken into individual digits for operations e.g. if 37 is followed by 10, the operation cannot be $3+7$ as a two digit number cannot be broken into individual digits)

13 - 26 - 30 - 60 ; 9 - 18 - 22 - 44

- Ans ☐ A. 10 - 20 - 24 - 54
☐ B. 2 - 4 - 8 - 12
☐ C. 3 - 6 - 10 - 22
☒ D. 6 - 12 - 16 - 32

Q.19 D, E, F, G, K, L and M are sitting around a circular table, facing the centre of the table. Only four people sit between F and G when counted from the right of F. F sits third to the left of M. E sits third to the left of D. K is an immediate neighbour of both G and M. How many people sit between L and K when counted from the right of L?

- Ans ☐ A. One
☒ B. Two
☐ C. Three
☐ D. Four

Q.20 Among five people named V, W, X, Y and Z, each have a certain age. The age of X is 30. V is four times the age of W. Y is twice the age of V. Z is five times the age of W. If Z is half the age of X, what is the age of Y?

- Ans ☐ A. 45
☐ B. 75
☐ C. 25
☒ D. 24

Q.21 Two alloys are made by mixing metals A and B in the ratio 3 : 2 and 5 : 3, respectively. Equal quantities of the two alloys are melted and mixed together. Find the ratio of metals A and B in the final mixture.

- Ans ☒ A. 49 : 31
☐ B. 7 : 4
☐ C. 49 : 30
☐ D. 8 : 5

Q.22 A body of mass 4 kg has a kinetic energy of 72 J. Its speed is:

- Ans ☐ A. 4 m/s
☐ B. 3 m/s
☐ C. 9 m/s
☒ D. 6 m/s

Q.23 What should come in place of ? in the given series?

57 82 118 167 231 ?

- Ans
- ☐ A. 311
 - ☐ B. 314
 - ☒ C. 312
 - ☐ D. 313

Q.24 In a division sum, the divisor is 10 times the quotient and 6 times the remainder. If the remainder is 25, what is the dividend?

- Ans
- ☐ A. 2277
 - ☐ B. 2280
 - ☒ C. 2275
 - ☐ D. 2276

Q.25 Which of the following statements correctly describes a double concave lens?

- Ans
- ☐ A. It is thinner at the edges and thicker in the middle; it converges light rays.
 - ☐ B. It is used to focus light to a single point.
 - ☐ C. It is equally thick at the center and edges; it neither converges nor diverges light.
 - ☒ D. It is thicker at the edges and thinner in the middle; it diverges light rays.

Q.26 Two trains of equal length are running on parallel lines in the same direction at speeds of 39 km/h and 21 km/h. The faster train passes the slower train in 26 seconds. The length of each train is:

- Ans
- ☐ A. 80 meters
 - ☒ B. 65 meters
 - ☐ C. 45 meters
 - ☐ D. 48 meters

Q.27 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:

Some mats are carpets.
All carpets are rugs.

Conclusions:

(I) Some mats are rugs.
(II) All rugs are carpets.

- Ans
- ☐ A. Only conclusion (II) follows.
 - ☐ B. Neither conclusion (I) nor (II) follows.
 - ☒ C. Only conclusion (I) follows.
 - ☐ D. Both conclusions (I) and (II) follow.

Q.28 Which of the following is a mechanical method of weed control?

- Ans
- ☐ A. Spraying herbicides
 - ☒ B. Hand weeding
 - ☐ C. Crop rotation
 - ☐ D. Seed treatment

Q.29 Find the smallest digit x such that the 6-digit number 28x219 is divisible by both 9 and 11.

- Ans
- ☒ A. 4
 - ☒ B. 6
 - ☒ C. 3
 - ☒ D. 5

Q.30 The given data shows the marks obtained by 50 students of a class in a test. What is the mean marks obtained by students?

Marks	Number of Students
20 - 30	5
30 - 40	12
40 - 50	10
50 - 60	15
60 - 70	8

- Ans
- ☒ A. 52.3
 - ☒ B. 45.2
 - ☒ C. 61.1
 - ☒ D. 46.8

Q.31 Let AB be an arc on a circle C that is 14 cm long. If the circumference of the circle is 180 cm, then find the angle made by arc AB at the centre.

- Ans
- ☒ A. 30°
 - ☒ B. 32°
 - ☒ C. 28°
 - ☒ D. 24°

Q.32 In a code language, 'PET' is coded as 123 and 'NEAR' is coded as 152. How will 'TRAIN' be coded in the same language?

- Ans
- ☒ A. 310
 - ☒ B. 196
 - ☒ C. 218
 - ☒ D. 288

Q.33 If $X + \frac{1}{X} = 15$, find the value of $X^2 + \frac{1}{X^2}$.

- Ans
- ☒ A. 125
 - ☒ B. 143
 - ☒ C. 225
 - ☒ D. 223

Q.34 If 'A' stands for '÷', 'B' stands for 'x', 'C' stands for '+' and 'D' stands for '-', what will come in place of the question mark (?) in the following equation?

22 B 108 A 12 C 43 D 171 = ?

- Ans
- ☒ A. 75
 - ☒ B. 71
 - ☒ C. 70
 - ☒ D. 72

Q.35 Under the Right to Equality, of the Indian Constitution, which type of equality is ensured in public employment?

- Ans**
- ☐ A. Religious equality
 - ☐ B. Economic equality
 - ☐ C. Political equality
 - ☒ D. Equality of opportunity

Q.36 Refer to the following letter series and answer the question that follows. Counting to be done from left to right only.
(Left) T O W A Q D F H G U K S I C X Z O F H G U K I S (Right)
How many such consonants are there, each of which is immediately preceded by a vowel and also immediately followed by a vowel?

- Ans**
- ☐ A. Three
 - ☒ B. Two
 - ☐ C. None
 - ☐ D. One

Q.37 During a sale, 44% of the goods are sold at a 28% profit, 25% of the remaining goods are sold at a 48% profit and the rest are sold at an 18% loss. If there is an overall profit of x%, then what is the value of x?

- Ans**
- ☐ A. 17%
 - ☒ B. 11.48%
 - ☐ C. 9%
 - ☐ D. 17.55%

Q.38 What sum (in ₹) will earn an interest of ₹480 in 2 years at 15% simple interest per year?

- Ans**
- ☐ A. 1750
 - ☒ B. 1600
 - ☐ C. 1400
 - ☐ D. 1800

Q.39 Each of G, H, I, J, K, L and M has an exam on a different day of a week starting from Monday and ending on Sunday of the same week. G has an exam on Wednesday. Only two persons have exam between G and L. I has exam immediately before L. H's exam is not on the last day. J has exam immediately after K. On which day does M have the exam?

- Ans**
- ☐ A. Friday
 - ☐ B. Saturday
 - ☒ C. Sunday
 - ☐ D. Monday

Q.40 If 33% of 497 = 71% of x, then the value of x is:

- Ans**
- ☐ A. 123
 - ☐ B. 213
 - ☐ C. 132
 - ☒ D. 231

Q.41 In a certain code language, 'HAGS' is coded as '7934' and 'EAHS' is coded as '9413'. What is the code for 'E' in the given code language?

- Ans**
- ☐ A. 3
 - ☐ B. 4
 - ☐ C. 9
 - ☒ D. 1

Q.42 What is the mode of the following data?

48, 42, 46, 42, 44, 43, 48, 49, 48, 45, 53, 46, 47, 47, 49, 53, 50, 41

- Ans**
- ☒ A. 42
 - ☒ B. 48
 - ☒ C. 46
 - ☒ D. 47

Q.43 Two trains are moving in the same direction at speeds of 40 km/h and 20 km/h, respectively. The faster train completely overtakes a man seated in the slower train in 10 seconds. Find the length (in m) of the faster train. (Round off your answer to the nearest integer value in meters.)

- Ans**
- ☒ A. 55
 - ☒ B. 56
 - ☒ C. 57
 - ☒ D. 54

Q.44 Waste products formed in body by energy generation processes are desirable to remove by which of the following life processes?

- Ans**
- ☒ A. Excretion
 - ☒ B. Nutrition
 - ☒ C. Circulation
 - ☒ D. Digestion

Q.45 BIGE is related to CKJI in a certain way based on the English alphabetical order. In the same way, RYAK is related to SADO. To which of the given options is JQTB related, following the same logic?

- Ans**
- ☒ A. KTWE
 - ☒ B. KSWF
 - ☒ C. JSXF
 - ☒ D. JSXE

Q.46 A student's marks were incorrectly entered as 84 instead of 100. Due to this, the average marks of the class got decreased by $\frac{8}{7}$. What is the number of students in the class?

- Ans**
- ☒ A. 10
 - ☒ B. 9
 - ☒ C. 14
 - ☒ D. 18

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

- Ans**
- ☒ A. LCZ
 - ☒ B. OFC
 - ☒ C. TLH
 - ☒ D. WNK

Q.48 A solid sphere of diameter 24 cm is melted and recast into small solid cones each of base radius 4 cm and height 9 cm. How many cones will be obtained?

- Ans**
- ☒ A. 48
 - ☒ B. 45
 - ☒ C. 56
 - ☒ D. 32

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**
- ☒ A. JA - LD
 - ☒ B. SM - UQ
 - ☒ C. GX - IA
 - ☒ D. PV - RY

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

GVJ : ZOB
AIE : TBW

- Ans**
- ☒ A. TYU : AHL
 - ☒ B. AMY : TFG
 - ☒ C. BRA : QDN
 - ☒ D. ATN : TLF

Q.51 12 is related to 149 following a certain logic. Following the same logic, 16 is related to 261. To which of the given options is 19 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 to/subtracting from/multiplying with 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

- Ans**
- ☒ A. 366
 - ☒ B. 162
 - ☒ C. 259
 - ☒ D. 474

Q.52 Jessica starts from Point A and drives 56 km towards north. He then takes a right turn, drives 58 km, turns right and drives 61 km. He then takes a right turn and drives 61 km. He takes a final right turn, drives 5 km and stops at Point P. How far (shortest distance) and towards which direction should he drive in order to reach Point A again? (All turns are 90 degrees turns only unless specified)

- Ans**
- ☒ A. 2 km to the east
 - ☒ B. 1 km to the east
 - ☒ C. 3 km to the east
 - ☒ D. 4 km to the west

Q.53 Each vowel in the word ROCKING is changed to the letter immediately preceding it in the English alphabetical order and each consonant is changed to the letter immediately following it in the English alphabetical order. Which of the following letters will appear exactly twice in the new group of letters thus formed?

- Ans**
- ☒ A. O
 - ☒ B. H
 - ☒ C. D
 - ☒ D. L

Q.54 A and B started a business investing ₹45,000 and ₹60,000, respectively. After 4 months, C joined them with ₹75,000. If the total profit at the end of the year is ₹62,000, find the difference (in ₹) between the shares of B and C in the profit.

- Ans**
- ☒ A. 4,000
 - ☒ B. 8,000
 - ☒ C. 7,000
 - ☒ D. 6,000

Q.55 A question is followed by two statements numbered (I) and (II). You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and decide the appropriate answer.

Q. Four students – Kabir, Mansi, Nupur, and Rakesh – scored different marks.

Who scored the second highest marks?

(I) Kabir scored more than Mansi but less than Nupur.

(II) Rakesh scored less than Nupur but more than Kabir.

- Ans**
- ☒ A. Data in Statement II alone is sufficient to answer the question while data in Statement I is not
 - ☒ B. Data in both statements I and II together are NOT sufficient to answer the question
 - ☒ C. Data in both statements I and II together (and not statement I alone or statement II alone) are sufficient to answer the question
 - ☒ D. Data in Statement I alone is sufficient to answer the question while data in Statement II is not

Q.56 A pipe can fill a tank in 5 hours, and another pipe can empty the same tank in 10 hours. How long will it take for both pipes to fill the tank when working together?

- Ans**
- ☒ A. 15 hours
 - ☒ B. 10 hours
 - ☒ C. 8 hours
 - ☒ D. 12 hours

Q.57 In a certain code language,

'A + B' means 'A is the mother of B',
'A – B' means 'A is the brother of B',
'A × B' means 'A is the sister of B', and
'A ÷ B' means 'A is the father of B'.

Based on the above, how is P related to T, if 'P × S ÷ R – Q + T'?

- Ans**
- ☒ A. Mother's sister's husband
 - ☒ B. Mother's father's sister
 - ☒ C. Mother's father's brother
 - ☒ D. Father's sister's husband

Q.58 10 men and 15 boys together can complete a work in 6 days. It takes 100 days for one man alone to complete the same work. How many days will a boy alone take to complete the same work?

- Ans**
- ☒ A. 240
 - ☒ B. 250
 - ☒ C. 230
 - ☒ D. 225

Q.59 The circumference of two circles are in the ratio 5:9. Calculate the ratio of their areas.

- Ans**
- ☒ A. 25:18
 - ☒ B. 26:9
 - ☒ C. 52:81
 - ☒ D. 25:81

Q.60 Seven boxes, U, V, O, P, Q, R and S, are kept one over the other but not necessarily in the same order. Q is kept second from the top. Only two boxes are kept between Q and R. S is kept immediately below Q. Only one box is kept between P and S. V is kept immediately above U. Which box is third from the top?

- Ans**
- ☒ A. R
 - ☒ B. S
 - ☒ C. P
 - ☒ D. V

Q.61 Each letter in the word **PERSON** is changed to the second letter immediately following it in the English alphabetical order, and then all the letters thus formed are arranged in alphabetical order. Which letter will be fifth from the right in the new number thus formed?

- Ans ☒ A. P
☒ B. Q
☒ C. T
☒ D. E

Q.62 A circle is inscribed in the $\triangle ABC$, touching AB, BC and AC at the points P, Q and R, respectively. If $AB - BC = 3$ cm, $AB - AC = 2$ cm and the perimeter of $\triangle ABC = 60$ cm, then $PB + AR$ (in cm) is

- Ans ☒ A. $\frac{68}{3}$
☒ B. $\frac{64}{3}$
☒ C. $\frac{61}{3}$
☒ D. $\frac{65}{3}$

Q.63 A luxury watch is marked at ₹75,000. During a festival, an 18% discount is offered followed by another ₹5,000 off. What is the final price of the watch?

- Ans ☒ A. ₹55,700
☒ B. ₹55,600
☒ C. ₹56,500
☒ D. ₹57,500

Q.64 If 2 is added to each odd digit and 1 is subtracted from each even digit in the number 7815642, which of the following digits will be third from the left?

- Ans ☒ A. 9
☒ B. 3
☒ C. 1
☒ D. 7

Q.65 Each of A, B, C, D, S, T and U has an exam on a different day of a week starting from Monday and ending on Sunday of the same week. S has the exam on Thursday, and U has the exam on Saturday. T has the exam immediately before B. A has the exam on one of the days after C. D has the exam immediately after B. How many people have exams between A and D?

- Ans ☒ A. Three
☒ B. Four
☒ C. Two
☒ D. One

Q.66 CH 43 is related to GL 23 in a certain way. In the same way, FK 85 is related to JO 65. To which of the given options is NS 76 related, following the same logic?

- Ans ☒ A. TW 56
☒ B. RV 65
☒ C. RW 56
☒ D. TU 65

Q.67 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**
- ☒ A. CFK
 - ☒ B. MOU
 - ☒ C. KNS
 - ☒ D. RUZ

Q.68 Which of the following correctly describes the properties of a proton?

- Ans**
- ☒ A. It is positively charged and has a mass approximately 2000 times that of an electron.
 - ☒ B. It has no charge and is present in the nucleus.
 - ☒ C. It is negatively charged and located inside the nucleus.
 - ☒ D. It has a positive charge and a mass equal to an electron.

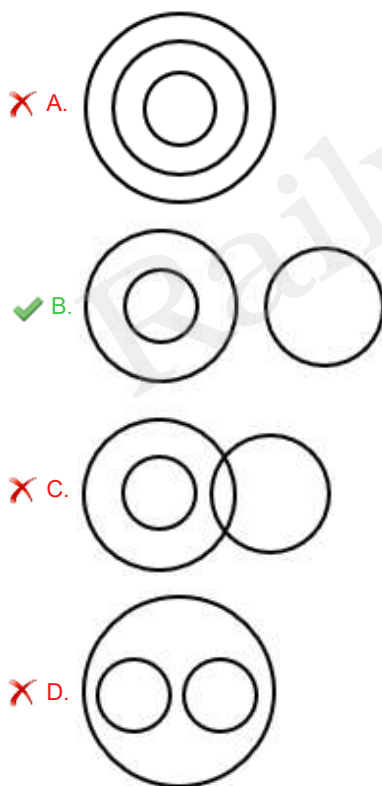
Q.69 4% of a number is what percentage of 16% of the same number?

- Ans**
- ☒ A. 25%
 - ☒ B. 10%
 - ☒ C. 20%
 - ☒ D. 400%

Q.70 Select the Venn diagram that best illustrates the relationship between the following classes.

Trees, Grass, Bamboo

Ans



Q.71 Three persons P, Q and R started a business with their shares in the ratio 6 : 3 : 15. After 5 months Q withdrew his 80% share and R withdrew his 52% share 4 months prior to completion of the year. If total profit in the year is ₹29900 then find the share of R (in ₹) in the profit.

- Ans**
- ☒ A. 18498
 - ☒ B. 18538
 - ☒ C. 18580
 - ☒ D. 18558

Q.72 A, B, C, D, E, F and G live on seven 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 is numbered 7. B lives on the third floor. Only two persons live between B and D. Only one person live between D and A. Only one person lives between F and C but C does not live on the topmost floor. G lives immediately below E. On which floor number does E live?

- Ans**
- ☐ A. Floor number 6
 - ☐ B. Floor number 7
 - ☒ C. Floor number 2
 - ☐ D. Floor number 5

Q.73 Each vowel in the word WONDERS is changed to the letter immediately following it in the English alphabetical order and each consonant is changed to the letter immediately preceding it in the English alphabetical order. How many vowels will be there in the new group of letters thus formed?

- Ans**
- ☒ A. 0
 - ☐ B. 2
 - ☐ C. 1
 - ☐ D. 3

Q.74 The Indian Genomic Data Set launched in 2025 is stored at which of the following facilities?

- Ans**
- ☐ A. Bharat Bioinformatics Center
 - ☐ B. National Data Archive of India
 - ☐ C. Indian Genomics Mission Lab
 - ☒ D. Indian Biological Data Centre

Q.75 Each vowel in the word RESTING 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. Which of the following letters will appear exactly twice in the new group of letters thus formed?

- Ans**
- ☐ A. S
 - ☐ B. J
 - ☒ C. F
 - ☐ D. R