



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.

- Options shown in green color with a tick icon are correct.
- 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 'x', '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
IJK : 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. HNEK : 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