सत्यमेव जयते

रेलवे भर्ती बोर्ड | RAILWAY RECRUITMENT BOARD

सीईएन ०१/२०२६ सहायक लोको पायलट (एएलपी) के पद पर भर्ती

CEN 01/2026 Recruitment of Assistant Loco Pilot (ALP)

Test Date	04/11/2026
Test Time	9:00 AM - 10:00 AM
Subject	RRB ALP 2026 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 **The weekly wages (in ₹) of 7 workers are ₹1200, ₹1300, ₹1100, ₹1400, ₹1250, ₹1350, ₹1150. What is the median wage?**

Ans A). ₹1300 B). ₹1350 C). ₹1200 D). ₹1250

Correct Answer: D

Q.2 **Which compound is treated with water to obtain washing soda in its preparation process?**

Ans A). Sodium bicarbonate is treated with water to obtain washing soda B). Sodium hydroxide is treated with water to obtain washing soda
C). Sodium carbonate is treated with water to obtain washing soda D). Sodium chloride is treated with water to obtain washing soda

Correct Answer: C

Q.3 **The displacement of an object between two instants can be determined from a velocity–time graph by calculating the:**

Ans A). area enclosed between the graph and the time axis. B). slope of the graph. C). intercept on the velocity axis. D). length of the graph.

Correct Answer: A

Q.4 **A, H, M, P, S, and V are sitting around a circular table facing the center. H is seated to the immediate right of M. Only two people are seated between P and A when counted from the right of P. S is not an immediate neighbor of P. V is seated to the immediate left of S. How many people are seated between H and V when counted from the left of H?**

Ans A). 2 B). 1 C). 4 D). 3

Correct Answer: D

Q.5 **This question is based on the five, three-digit numbers given below.**
(Left) 956 587 124 963 248 (Right)
(Example- 697 – First digit = 6, second digit = 9 and third digit = 7)
NOTE - All operations to be done from left to right.
What will be the resultant if the second digit of the highest number is added to the third digit of the lowest number?

Ans A). 9 B). 10 C). 7 D). 12

Correct Answer: B

Q.6 **A shopkeeper buys a pen for ₹100 and sells it for ₹150. What is the profit percentage?**

Ans A). 48% B). 45% C). 50% D). 40%

Correct Answer: C

Q.7 A can lay a railway track between two given stations in 7 days and B can do the same job in 63 days. With the help of C, they do the job in 6 days only. Then, C alone can do the job in:

Ans A). 128 days B). 126 days C). 127 days D). 129 days

Correct Answer: B

Q.8 This question is based on the five, three-digit numbers given below.
(Left) 639 658 652 641 647 (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). 18 B). 16 C). 14 D). 15

Correct Answer: C

Q.9 P, Q and R start a business with investments in the ratio 2 : 3 : 5. If P's share of the annual profit is ₹4,000, what is the total profit?

Ans A). ₹18,000 B). ₹25,000 C). ₹20,000 D). ₹15,000

Correct Answer: C

Q.10 Based on the alphabetical order, three of the following four are alike in a certain way and thus form a group. Which is the one that does not belong to that group?
(Note: The odd one is not based on the number of consonants/vowels or their position in the letter cluster.)

Ans A). MQ - RU B). GS - KW C). ZK - DO D). IJ - MN

Correct Answer: A

Q.11 The value of $\tan^4\theta + (2 - \sec^2\theta)\tan^2\theta + 2 - \sec^2\theta$ is:

Ans A). 2 B). −1 C). 0 D). 1

Correct Answer: D

Q.12 Three friends, A, B, and C, invest in the ratio 2:3:5 in a business. If the total profit is ₹1,00,000, how much more does C get than A?

Ans A). ₹30,000 B). ₹20,000 C). ₹10,000 D). ₹40,000

Correct Answer: A

Q.13 The diameter PQ of a circle with centre O is perpendicular to a chord RS at point M. Point Q is in the minor segment and P is in the major segment. If RS = 32 cm and QM = 6 cm, what is the length of PM (in cm)?

Ans A). $24\frac{2}{3}$ B). $48\frac{2}{3}$ C). $32\frac{2}{3}$ D). $42\frac{2}{3}$

Correct Answer: D

Q.14 Which of the following plant tissues are made up of long, living cells arranged end-to-end by perforated walls?

Ans A). Sieve tubes B). Phloem fibres C). Tracheids D). Vessels

Correct Answer: A

Q.15 Refer to the following letter and symbol series and answer the question that follows. Counting to be done from left to right only.

(Left) O H # M N @ $ R & I Ω T £ D H R Y (Right)

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

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

Correct Answer: D

Q.16 Six boxes A, B, F, G, H and I are kept one over the other but not necessarily in the same order. Only A is kept above I. Only two boxes are kept between A and F. Only G is kept below H. How many boxes are kept between B and G?

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

Correct Answer: B

Q.17 Find the compound interest on ₹8,680 for one year at 10% per annum, interest payable half yearly (rounded off to the nearest rupees).

Ans A). ₹890 B). ₹880 C). ₹840 D). ₹850

Correct Answer: A

Q.18 Each letter in the word GUILDER is arranged in the English alphabetical order. How many letters are there in the English alphabetical order between the letter which is fourth from the left and the one which is first from the right in the new letter cluster thus formed?

Ans A). 14 B). 12 C). 10 D). 11

Correct Answer: D

Q.19 In a certain code language, 'HATE' is coded as '7856' and 'TEAM' is coded as '7659'. What is the code for 'M' in that language?

Ans A). 5 B). 8 C). 9 D). 6

Correct Answer: C

Q.20 A wooden box in the shape of a cuboid has internal dimensions 19.8 cm × 13.2 cm × 8.8 cm. It is completely filled with small cubic blocks, each of side 2.2 cm. Find the number of cubes that can completely fill the box.

Ans A). 216 B). 232 C). 200 D). 256

Correct Answer: A

Q.21 What will come in place of the question mark (?) in the following equation if '+' and '−' are interchanged and '×' and '÷' are interchanged?
10 ÷ 2 + 70 × 5 − 80 = ?

Ans A). 86 B). 83 C). 76 D). 66

Correct Answer: A

Q.22 Simplify: $3-\sqrt{5}+\frac{1}{\sqrt{5}-\sqrt{3}}+\frac{1}{\sqrt{5}-\sqrt{3}}$.

Ans A). 3 B). $3+\sqrt{3}$ C). $2+\sqrt{5}$ D). $\sqrt{3}-\sqrt{5}$

Correct Answer: B

Q.23 A sum was invested at 12% per annum for 2 years. The difference between compound interest, compounded annually, and simple interest earned on the sum after 2 years is ₹101.76. What was the principal amount (rounded off to two decimal places)?

Ans A). ₹7,066.67 B). ₹6,842.48 C). ₹6,050.23 D). ₹7,680.82

Correct Answer: A

Q.24 Seven people Mohan, Nehal, Ojasvi, Pooja, Suresh, Tushar and Umang are sitting around a circular table facing the centre. Nehal sits second to the left of Ojasvi. Umang sits second to the left of Nehal. Tushar sits to the immediate left of Suresh. Mohan is not an immediate neighbour of Umang. How many people sit between Mohan and Umang when counted from the left of Mohan?

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

Correct Answer: A

Q.25 Where in the cell does the breakdown of glucose occur during anaerobic respiration?

Ans A). In the chloroplasts responsible for making food through photosynthesis B). Inside the nucleus that controls all cell activities
C). Within the cytoplasm, where cellular reactions occur D). In the mitochondria, known as the powerhouse of the cell

Correct Answer: C

Q.26 Which of the following regions of the electromagnetic spectrum is/are primarily responsible for photosynthesis on Earth?

Ans A). Visible light B). Microwaves C). Ultraviolet radiation D). Radio waves

Correct Answer: A

Q.27 Select the pair that follows the same pattern as that followed by the two pairs given below. Both pairs follow the same pattern.

QRU−TUX
STW−VWZ

Ans A). GHK−JKN B). GGI−JKN C). GHK−IKM D). GGI−IJM

Correct Answer: A

Q.28 A pair of shoes is marked at ₹2000. During a festival sale, a shopkeeper offers a 30% discount. What is the amount of discount given?

Ans A). ₹800 B). ₹700 C). ₹500 D). ₹600

Correct Answer: D

Q.29 What will come in place of the question mark (?) in the following equation if '+' and '−' are interchanged and '×' and '÷' are interchanged?

43 – 16 ÷ 9 + 154 × 14 = ?

Ans A). 170 B). 177 C). 174 D). 176

Correct Answer: D

Q.30 A, B, C, D and E each scored different marks. D was the third lowest scorer. B scored less than C. E scored more than A but less than B. How many people scored more than E?

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

Correct Answer: B

Q.31 Select the pair which follows the same pattern as that followed by the two pairs given below. Both pairs follow the same pattern.
XZC−EGJ
MOR−TVY

Ans A). LNQ−SUX B). LNQ−RUW C). LMO−RTW D). LMO−SUX

Correct Answer: A

Q.32 If cosec 43° = x, then the value of $\left[\frac{1}{\text{cosec}^2 47^\circ} + \sin^2 43^\circ + \tan^2 47^\circ - \frac{1}{\sin^2 47^\circ \sec^2 43^\circ}\right]$ is:

Ans A). $x^2 - 1$ B). $2x + 3$ C). $2x^2 - 3$ D). $x^2 + 1$

Correct Answer: A

Q.33 If a bell is rung under water and in open air, which of the following best describes what happens to the speed of sound between the two situations?

Ans A). Sound travels slower in water than in air. B). Sound travels faster in water than in air. C). Sound does not travel through water. D). Sound travels at the same speed in both media.

Correct Answer: B

Q.34 A merchant mixes 30 kg of rice costing ₹40 per kg with 20 kg of rice costing ₹60 per kg. What is the average price per kg of the resulting mixture?

Ans A). ₹52 B). ₹50 C). ₹48 D). ₹45

Correct Answer: C

Q.35 Refer to the following letter series and answer the question that follows. Counting to be done from left to right only
(Left) S Q A Y V Y V E R L O A J F V V A Z A A F 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). 3 B). 5 C). 4 D). 2

Correct Answer: A

Q.36 Aman is three times as old as his son, and his daughter is 3 years younger than the son. If the sum of the ages of these three people 3 years ago was 108 years, then Aman's present age (in years) is:

Ans A). 72 B). 48 C). 59 D). 70

Correct Answer: A

Q.37 What will come in place of the question mark (?) in the following equation if '+' and '−' are interchanged and '×' and '÷' are interchanged?

5 ÷ 2 + 8 × 4 − 5 = ?

Ans A). 20 B). 18 C). 13 D). 22

Correct Answer: C

Q.38 What should come in place of the '?' in the given series?

35,44,62,89,125, ?

Ans A). 173 B). 172 C). 171 D). 170

Correct Answer: D

Q.39 If $8b - \frac{1}{5b} = 8$, then what is the value of the expression $25b^2 + \frac{1}{64b^2}$?

Ans A). $\frac{80}{49}$ B). $\frac{7}{4}$ C). $\frac{105}{4}$ D). $\frac{120}{7}$

Correct Answer: C

Q.40 The position(s) of how many letters will remain unchanged if each letter in the word CHAPTER is arranged in the English alphabetical order?

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

Correct Answer: A

Q.41 A car's radiator should contain a solution of 84% antifreeze. A motorist has 10 litres of 70% antifreeze. How many litres (rounded off to 2 decimal places) of 95% antifreeze liquid should he add to his solution to produce a 84% antifreeze?

Ans A). 15.38 B). 12.73 C). 18.61 D). 10.34

Correct Answer: B

Q.42 Two trains with lengths 148 m and 156 m, respectively, are moving towards each other. Their speeds are 17.5 m/s and 20.5 m/s, respectively. What will be the time required by the trains to cross each other?

Ans A). 9 seconds B). 8 seconds C). 10 seconds D). 7 seconds

Correct Answer: B

Q.43 **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.**

Q. Five people – Qirat, Reyansh, Samika, Tushar and Urvika – live on different floors of a five-storey building numbered 1 to 5 (1 being the lowest and 5 being the highest floor). Who lives on Floor 5?

(I) Samika lives above Tushar, who lives above Reyansh.
(II) Urvika lives above Samika, and Qirat lives below Reyansh.

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

D). Both statements I and II together (and not statement I alone or statement II alone) are sufficient to answer the question

Correct Answer: D

Q.44 **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 operations 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 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)
14 – 25 – 75 – 90 ; 12 – 23 – 69 – 84

Ans A). 8 – 19 – 57 – 72 B). 10 – 21 – 63 – 76 C). 4 – 15 – 45 – 70 D). 6 – 17 – 68 – 83

Correct Answer: A

Q.45 **This question is based on the following words.**
DIN GOD LAY DUB
In each of the words, each vowel is changed to the second letter preceding it in the English alphabetical order and each consonant is changed to the letter immediately following it in the English alphabetical order. In how many letter-clusters thus formed, will no vowel appear?

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

Correct Answer: B

Q.46 **Each of C, F, J, R, N, U and H has an exam on a different day of a week starting from Monday and ending on Sunday of the same week. N has the exam on Thursday. Only five people have exams before C. F has the exam immediately after R but not on Wednesday. H has the exam after U but before J. How many people have exams between U and J?**

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

Correct Answer: D

Q.47 **The volume of a cylinder having diameter 30 cm and height 49 cm is:**

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

Ans A). 34606 cm^3 B). 34725 cm^3 C). 34650 cm^3 D). 34569 cm^3

Correct Answer: C

Q.48 **Which of the following letter-number clusters will replace the question mark (?) in the given series to make it logically complete?**

VSM 15 SPO 2 PMQ -11 MJS -24 ?

Ans A). JKI -34 B). JGU -37 C). HYT -35 D). HKP -44

Correct Answer: B

Q.49 **Seven people, E, F, G, H, W, X and Y, are sitting around a circular table, facing the center of the table. E sits fourth to the left of X. Only two people sit between H and G, when counted from the left of H. F sits third to the left of Y. W is an immediate neighbor of Y and G. Who sits fourth to the right of W?**

Ans A). G B). H C). E D). F

Correct Answer: B

Q.50 **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 pair.)

Ans A). VT−RP B). US−QO C). NL−JH D). WU−RS

Correct Answer: D

Q.51 311 is related to 330 following a certain logic. Following the same logic, 426 is related to 445. To which of the given options is 115 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 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). 145 B). 167 C). 134 D). 156

Correct Answer: C

Q.52 Sahil starts from Point A and drives 14 km towards West. He then takes a right turn, drives 10 km, turns right and drives 17 km. He then takes a right turn and drives 15 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-degree turns only unless specified.)

Ans A). 6 km to the North B). 7 km to the South C). 5 km to the North D). 6 km to the South

Correct Answer: C

Q.53 In this question, a group of number/symbol is coded using letter codes as per the codes given below and the conditions which follow. The correct combination of codes following the conditions is your answer. If none of the conditions follow, then codes for the respective Number/Symbol are to be followed directly as given in the table.

Number/symbol	4	@	7	#	2	%	9	&	1	$	8	+	5	6
Code	J	M	P	T	D	R	W	F	H	K	A	U	L	Q

Conditions –
(i) If the first element is a symbol, code the second element as ©.
(ii) If the third element is a symbol, code the fourth element as ©.
(iii) If the fifth element is a symbol, code the first element as ©.

What is the code for the following group of number-symbols?
94#51

Ans A). ©JTLH B). WJTLH C). WJTL© D). WJT©H

Correct Answer: D

Q.54 MING is related to TPUN in a certain way based on the English alphabetical order. In the same way, OKPI is related to VRWP. To which of the given options is JFKD related, following the same logic?

Ans A). QMJU B). QMRK C). QRHY D). QMKI

Correct Answer: B

Q.55 A shopkeeper bought six identical mobile phones for ₹75,000. He sold two of them for ₹34,000. What was his gain percentage on the two mobile phones sold?

Ans A). 37% B). 36% C). 39% D). 35%

Correct Answer: B

Q.56 What should come in place of '?' in the given series?
4 12 23 31 42 50 ?

Ans A). 58 B). 63 C). 54 D). 61

Correct Answer: D

Q.57 If '+' means '–', '–' means '×', '×' means '÷', '÷' means '+', then what will come in place of the question mark (?) in the following equation?

30 – 4 ÷ 4 + 40 × 10 = ?

Ans A). 122 B). 124 C). 118 D). 120

Correct Answer: D

Q.58 Which of the following letter-number clusters will replace the question mark (?) in the given series to make it logically complete?
YVX 9, URT 14, QNP 19, MJL 24, ?

Ans A). IFH 29 B). IHF 28 C). GFH 29 D). IFG 28

Correct Answer: A

Q.59 Let AB and CD be two parallel lines, with AB above CD. Let EF and GH be two parallel transversals intersecting AB at P and R, respectively, and CD at Q and S, respectively. Assume that E and G lie above AB, while F and H lie below CD. If ∠EPB = 2a°, ∠DSG = b° and ∠FQD = 80°, then find the values for a and b, respectively.

Ans A). 40 and 100 B). 20 and 80 C). 50 and 100 D). 40 and 120

Correct Answer: C

Q.60 A person invested ₹56,500 at a rate of 8% per annum simple interest for 2 years. Find the amount (in ₹) he will receive after 2 years.

Ans A). 65,450 B). 64,450 C). 65,540 D). 64,540

Correct Answer: C

Q.61 Simplify: $\frac{52^2 - 12^3}{4^3 - 16 \times 3}$

Ans A). 72 B). 61 C). 57 D). 66

Correct Answer: B

Q.62 **18 is related to 59 following a certain logic. Following the same logic, 15 is related to 50. To which of the following is 12 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). 41 B). 45 C). 36 D). 32

Correct Answer: A

Q.63 **Which statement best describes a homogeneous mixture?**

Ans A). It forms layers that can be seen easily B). It shows different properties and appearance in different areas C). It has the same appearance and composition throughout D). It contains substances visible to the naked eye

Correct Answer: C

Q.64 **Each vowel in the word DARKISH is changed to the letter immediately following it in the English alphabetical order and each consonant is changed to the letter immediately preceding it in the English alphabetical order. How many letters will appear exactly twice in the group of letters thus formed?**

Ans A). 1 B). 2 C). 3 D). 0

Correct Answer: A

Q.65 **If a candidate received 55% of the 2,20,000 votes in an election, what was the total number of votes the candidate received?**

Ans A). 1,30,000 B). 1,21,000 C). 1,15,000 D). 1,10,000

Correct Answer: B

Q.66 **Binayak starts from Point A and drives 11 km towards East. He then takes a left turn, drives 8 km, turns left and drives 12 km. He then takes a left turn and drives 10 km. He takes a final left turn, drives 1 km and stops at Point P. How far (shortest distance) and towards which direction should he drive in order to reach Point A again? (All turns are 90 degrees turns only unless specified)**

Ans A). 2 km to the North B). 1 km to the North C). 3 km to the North D). 4 km to the North

Correct Answer: A

Q.67 **In a certain code language, 'WHAT' is coded as '2789' and 'HATS' is coded as '1789'. What is the code for 'S' in the given code language?**

Ans A). 7 B). 2 C). 8 D). 1

Correct Answer: D

Q.68 **The 7-digit number 49A952B is divisible by 12. What is the minimum value of (A + B)?**

Ans A). 3 B). 1 C). 4 D). 2

Correct Answer: B

Q.69 **A student in a laboratory finds that sound travels faster in steel than in air. Which characteristic of the medium best explains this observation?**

Ans A). Shape and size of the medium B). Density and elasticity of the medium C). Thickness and color of the medium D). Temperature and humidity of the medium

Correct Answer: B

Q.70 **In a certain code language, 'piano juice bonus' is coded as 'ui gc fh' and 'bonus lemon judge' is coded as 'hp ui gt'. How is 'bonus' coded in the given language?**

Ans A). fh B). gc C). ui D). hp

Correct Answer: C

Q.71 **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.**

Question:
Among 5 sticks, T, N, R, K and I, each having a different height, which stick is the shortest?

Statements:
(I) K is shorter than I but taller than N. T is taller than N.
(II) R is taller than only one stick.

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

B). Data in statement I alone is sufficient to answer the question while data in statement II is not.

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

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

Correct Answer: D

Q.72 **Refer to the following letter series and answer the question that follows. Counting to be done from left to right.**
(Left) I X U Q T O D I R R Z I P T T D E O L I U Z (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). 2 B). 5 C). 3 D). 4

Correct Answer: C

Q.73 **Each of F, A, C, I, N, G and S has holidays on a different day of a week, starting from Monday and ending on Sunday of the same week. No one has holiday before A. Only three people have holiday between A and I. Only one person has holiday between I and C. F has holiday on Wednesday. N has holiday on one of the days after S but on one of the days before G. On which day of the week does N have holiday?**

Ans A). Sunday B). Monday C). Saturday D). Thursday

Correct Answer: D

Q.74 **What should come in place of '?' in the given series?**
514 393 293 212 148 ?

Ans A). 106 B). 92 C). 116 D). 99

Correct Answer: D

Q.75 **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. V has an exam on Friday. Only two people have exams between V and S. S has an exam on the day immediately after T. R has an exam on the day immediately after U but not on Thursday. Q has an exam on the day immediately after P but before U. Who among the following has an exam on Thursday?**

Ans A). P B). S C). Q D). R

Correct Answer: C

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