RRB Assistant Loco Pilot (ALP) 2025 Previous Year Paper Shift 3

RRB Assistant Loco Pilot (ALP) • 2025 • 75 questions • 60 minutes • Answer key

Take this paper as a timed mock test

Practise under exam conditions, then review your answers after you submit.

yourmocktest.com/pyq/rrb-alp/rrb-assistant-loco-pilot-alp-2025-previous-year-paper-shift-3

Scan the QR code or click the link to open it.

YourMockTest.com — Free Study Material

MATHEMATICS

Q1. 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 Rs. 224, at what price did he sell the item to that customer?

(a) Rs. 1,276
(b) Rs. 1,167
(c) Rs. 1,176
(d) Rs. 1,166

Q2. 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.)

(a) YAC
(b) PRU
(c) NPS
(d) JLO

Q3. A number is decreased by 18% and then increased by 22%. Find the net increase or decrease percentage (correct to two places of decimals).

(a) Decreased 0.04%
(b) Decreased 1.2%
(c) Increased 0.04%
(d) Increased 1.2%

Q4. 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 π = 22/7)

(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

Q5. Simplify: [Formula above]

(a) sec A
(b) 2sec A
(c) cosec A
(d) 2cosec A

Q6. Consider the following chemical reactions:

I: $BaCl_2 (aq) + Na_2SO_4 (aq) \rightarrow BaSO_4 (s) + 2NaCl (aq)$

II: $Pb(NO_3)_2 (aq) + KI (aq) \rightarrow PbI_2 (s) + 2KNO_3 (aq)$

Which of the following correctly classifies these reactions?

(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

Q7. 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.

(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.

Q8. 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.)

(a) PL - KG
(b) MI - LP
(c) OK - JF
(d) KG - FB

Q9. 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?

(a) Floor Number 3
(b) Floor Number 5
(c) Floor Number 1
(d) Floor Number 2

Q10. 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’?

(a) Wife's mother's brother
(b) Mother's brother
(c) Wife's father's brother
(d) Father

Q11. On a certain sum, if at the same rate of interest, in 2 years, the simple interest is Rs. 64 and the compound interest is Rs. 72, then what is the sum (in Rs.)?

(a) 121
(b) 132
(c) 128
(d) 123

YourMockTest.com — Free Study Material

Q12. The volume of a solid cylinder is 5,236 cm^3 and its height is 34 cm. What is the total surface area of the solid cylinder? (Use π = 22/7)

(a) 1804 cm^2
(b) 1841 cm^2
(c) 1823 cm^2
(d) 1831 cm^2

Q13. 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?

(a) TQLF
(b) SQME
(c) SOME
(d) TRLE

Q14. 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?

(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

Q15. 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.)

(a) OGD
(b) JBY
(c) ASP
(d) RIF

Q16. 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

(a) 2 – 4 – 16 – 21
(b) 9 – 81 – 6588 – 6573
(c) 4 – 16 – 256 – 241
(d) 7 – 49 – 2150 – 2250

Q17. Which of the following hormones is secreted by the pituitary gland?

(a) Growth hormone
(b) Insulin
(c) Adrenaline
(d) Thyroxine

Q18. 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'?

(a) Daughter's daughter

YourMockTest.com — Free Study Material

(b) Daughter's son
(c) Father
(d) Mother

Q19. 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?

(a) 7
(b) 2
(c) 4
(d) 8

Q20. 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)

(a) (17, 5, 85)
(b) (11, 6, 86)
(c) (12, 4, 58)
(d) (8, 9, 62)

GENERAL INTELLIGENCE AND REASONING

Q21. 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?

(a) None
(b) Two
(c) Three
(d) One

Q22. 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?

(a) E
(b) Q
(c) T
(d) P

Q23. 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

(a) 34 - 70 - 79 - 78
(b) 22 - 90 - 100 - 99
(c) 37 - 298 - 299 - 287
(d) 8 - 48 - 50 - 46

YourMockTest.com — Free Study Material

Q24. A concave mirror is used in torches and car headlights because it:

(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

Q25. 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?

(a) None
(b) One
(c) Two
(d) Three

Q26. 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

(a) ALM : BNP
(b) WHX : VEU
(c) ZYB : YTZ
(d) KFQ : JDO

Q27. 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.

(a) 60 km/hr
(b) 55 km/hr
(c) 65 km/hr
(d) 58 km/hr

Q28. 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?

(a) 6
(b) 5
(c) 8
(d) 3

Q29. If the median and mode of a data of 20 numbers are 250 and 295, respectively, then find the sum of the 20 numbers.

(a) 4050
(b) 4005
(c) 4500
(d) 4550

Q30. What sum (in Rs.) will earn an interest of Rs. 480 in 2 years at 8% simple interest per year?

(a) 3150
(b) 2800
(c) 3200
(d) 3000

Q31. Which of the following ratios is the smallest?

(a) 4 : 7
(b) 7 : 10
(c) 5 : 8

YourMockTest.com — Free Study Material

(d) 6 : 9

Q32. 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?

(a) One
(b) None
(c) Two
(d) Three

Q33. A and B start a business by investing Rs. 93,000 and Rs. 54,000, respectively. B leaves the business after 3 months, and then C joins with an investment of Rs. 28,000 for the remaining period of the year. If 11% of the total profit is Rs. 61,336, what is B's share of the profit?

(a) Rs. 59,070
(b) Rs. 59,059
(c) Rs. 59,040
(d) Rs. 58,951

Q34. 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?

(a) 12
(b) 8
(c) 6
(d) 10

Q35. Find the simplified value of the following expression:

[Formula above]

(a) 21
(b) 30
(c) 2.4
(d) 2.1

Q36. 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 on exam on Sunday. Q has an exam immediately after I. O has an exam immediately before M. How many people have exams after Q?

(a) 3
(b) 2
(c) 1
(d) 4

Q37. Which chamber of the heart sends deoxygenated blood to the lungs for oxygenation?

(a) Left ventricle
(b) Right atrium
(c) Right ventricle
(d) Left atrium

Q38. 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.

Question:

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

Statements:

YourMockTest.com — Free Study Material

(I) N is taller than only two poles. E is taller than N but shorter than M.

(II) R is taller than A.

(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

Q39. The value of $9^2 + \sqrt{8^2} - 10\sqrt{49} - 20$ =

(a) 3
(b) -6
(c) -1
(d) -8

Q40. Which of the following events happens when lysosomes in a cell burst?

(a) Enzymes digest foreign particles only
(b) Cell division increases
(c) Cell becomes more active
(d) Enzymes digest the cell's own components

Q41. Select the Venn diagram that best illustrates the relationship between the following classes.

Headgears, Helmets, Caps

(a)
(b)
(c)
(d)

Q42. Exercise Varuna 2025 was conducted between India and which country?

(a) Japan
(b) Russia
(c) USA
(d) France

Q43. 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)

(a) 12.25 days
(b) 14.15 days
(c) 13.33 days
(d) 10.5 days

Q44. What should come in place of the question mark (?) in the given series based on the English alphabetical order?

XJI PBA HTS ZLK ?

(a) RED
(b) TDS
(c) RDC
(d) RCD

Q45. 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 Rs. 5,055, then find the sum of the prices of three articles.

(a) Rs. 25,275
(b) Rs. 26,200
(c) Rs. 31,500
(d) Rs. 29,090

YourMockTest.com — Free Study Material

BASIC SCIENCE AND ENGINEERING

Q46. An article is sold at a profit of 38%. If the cost price is increased by Rs. 68 and the selling price is reduced by Rs. 54, then the profit would be 37.5%. What is the original cost price (in Rs.) of the article?

(a) 29,500
(b) 29,400
(c) 29,700
(d) 29,300

Q47. 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?

(a) M
(b) S
(c) A
(d) H

Q48. What will come in the place of '?' in the following equation, if '+' and '-' are interchanged and '×' and '÷' are interchanged?

31 - 1 × 2 ÷ 28 + 26 = ?

(a) 20
(b) 19
(c) 21
(d) 17

Q49. Find the area of a regular hexagon whose side measures $18\sqrt{2}$ cm. (Use $\sqrt{3} = 1.73$)

(a) 1681.56 cm^2
(b) 1691.56 cm^2
(c) 1671.56 cm^2
(d) 1661.56 cm^2

Q50. 100 bananas were bought at the rate of Rs. 1,200 per hundred and were sold at a profit of Rs. 1,100. Find the selling price (in Rs.) per dozen bananas.

(a) 281
(b) 276
(c) 271
(d) 286

Q51. What should come in place of ? in the given series?

57 65 81 113 177 ?

(a) 305
(b) 306
(c) 307
(d) 304

Q52. 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?

(a) 88
(b) 93
(c) 112
(d) 86

YourMockTest.com — Free Study Material

Q53. 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?

(a) THREE
(b) FOUR
(c) ONE
(d) FIVE

Q54. LPG (Liquefied Petroleum Gas) is stored in cylinders in liquid form because:

(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

Q55. 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)

(a) 25 km to the north
(b) 27 km to the south
(c) 26 km to the north
(d) 24 km to the north

Q56. 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?

(a) G
(b) J
(c) O
(d) M

Q57. 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.

(a) Only conclusion (I) follows
(b) Only conclusion (II) follows
(c) Neither conclusion (I) nor (II) follows
(d) Both conclusions (I) and (II) follow

Q58. A shopkeeper fixes the marked price of an item 40% above its cost price. What percentage of discount should he offer to gain 26%?

(a) 12%
(b) 9%
(c) 0.11%
(d) 10%

YourMockTest.com — Free Study Material

Q59. 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

(a) 66
(b) 70
(c) 86
(d) 74

Q60. 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?

(a) One
(b) None
(c) Two
(d) Three

Q61. 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:

(a) 49
(b) 43
(c) 39
(d) 56

Q62. 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.)

(a) 2 km to the east
(b) 3 km to the North
(c) 4 km to the South
(d) 1 km to the east

Q63. A force acts on a 4 kg body at rest and produces an acceleration of 3 m/s^2. The final velocity after 5 seconds is:

(a) 20 m/s
(b) 10 m/s
(c) 12 m/s
(d) 15 m/s

Q64. 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?

(a) 1
(b) 3
(c) 2
(d) 4

Q65. 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?

(a) Kiran
(b) Manan
(c) Aditi
(d) Isha

YourMockTest.com — Free Study Material

Q66. 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?

(a) None
(b) Two
(c) Three
(d) One

Q67. Which of the following is a type of ‘urban local government’ according to the Constitution of India?

(a) Gram Sabha
(b) Zila Panchayat
(c) Municipality
(d) Block Panchayat

Q68. 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?

(a) 9 ^5/6
(b) 9 ¹/6
(c) 5 ¹/6
(d) 8 ¹/5

Q69. What should come in place of the question mark (?) in the given series based on the English alphabetical order?

FVM ITK LRI OPG ?

(a) SNE
(b) RNF
(c) SNT
(d) RNE

Q70. What should come in place of the question mark (?) in the given series?

207 194 181 168 155 ?

(a) 147
(b) 140
(c) 145
(d) 142

Q71. 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?

(a) SU 135
(b) PV 135
(c) PU 145
(d) SV 125

Q72. A student's marks were incorrectly entered as 21 instead of 69. Due to this, the average marks of the class got decreased by 6/5. What is the number of students in the class?

(a) 42
(b) 50
(c) 37
(d) 40

Q73. 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?

(a) U

YourMockTest.com — Free Study Material

(b) O
(c) T
(d) H

Q74. 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 = ?

(a) -28
(b) -31
(c) -29
(d) -27

Q75. 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:

(a) 31.25%
(b) 25%
(c) 27.5%
(d) 30.75%

ANSWER KEY

1	c	2	a	3	c	4	b	5	d	6	d	7	b	8	b	9	b	10	c
11	c	12	a	13	b	14	c	15	d	16	c	17	a	18	b	19	b	20	c
21	c	22	d	23	d	24	c	25	c	26	d	27	a	28	b	29	d	30	d
31	a	32	c	33	c	34	b	35	a	36	a	37	c	38	d	39	c	40	d
41	–	42	d	43	c	44	c	45	a	46	a	47	b	48	b	49	a	50	b
51	a	52	b	53	b	54	b	55	c	56	c	57	c	58	d	59	c	60	c
61	a	62	d	63	d	64	a	65	b	66	a	67	c	68	b	69	d	70	d
71	d	72	d	73	c	74	c	75	a										

More previous year papers and mock tests: **www.yourmocktest.com/pyq**

YourMockTest.com — Free Study Material