RRB Assistant Loco Pilot (ALP) 2025 Previous Year Paper Shift 2

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-2

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

YourMockTest.com — Free Study Material

MATHEMATICS

Q1. 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.)

(a) 177
(b) 171
(c) 161
(d) 166

Q2. 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?

(a) XPFR
(b) XPFQ
(c) YOFR
(d) YPFR

Q3. 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?

(a) 22 days
(b) 20 days
(c) 16 days
(d) 18 days

Q4. 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?

(a) Floor number 4
(b) Floor number 2
(c) Floor number 3
(d) Floor number 5

Q5. 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?

(a) Zero on the Moon
(b) Greater on the Moon
(c) Less on the Moon
(d) Same on both

Q6. 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.)

(a) West
(b) East
(c) South
(d) North

Q7. 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?

(a) TWO
(b) THREE
(c) FOUR
(d) NONE

Q8. Karan and Arjun start a business by investing Rs. 45,000 and Rs. 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 Rs. 30,600. What is Arjun's share of the profit (in Rs.)?

(a) 1,14,600
(b) 1,14,250
(c) 1,12,500
(d) 1,12,350

Q9. Three partners, Alex, Ben, and Chris, invest in a startup. Alex invests Rs. 30,000, Ben invests Rs. 45,000, and Chris invests Rs. 60,000. After one year, the profit is Rs. 27,000. What is Alex's share in the profit?

(a) Rs. 5,000
(b) Rs. 5,200
(c) Rs. 5,800
(d) Rs. 6,000

Q10. What should come in place of the question mark (?) in the given series based on the English alphabetical order?

KEV CWN UOF MGX ?

(a) EYP
(b) EDS
(c) EPY
(d) ERT

Q11. 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?

(a) Sunday
(b) Tuesday
(c) Thursday
(d) Saturday

Q12. 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)

(a) 8 km to the south

YourMockTest.com – Free Study Material

(b) 9 km to the north
(c) 7 km to the south
(d) 10 km to the north

Q13. 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?
(a) LS2197
(b) MS1019
(c) MR169
(d) LR507

Q14. Thicker muscular walls are present in the ventricles of the heart due to which of the following reasons?
(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

Q15. 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.
(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.

Q16. 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.
(a) 4:3
(b) 3:4
(c) 2:5
(d) 5:2

Q17. 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.
(a) 45
(b) 42
(c) 41
(d) 51

Q18. Find the mean proportional between 36 and 81.
(a) 45
(b) 48
(c) 52
(d) 54

YourMockTest.com — Free Study Material

Q19. A trader marks a product at Rs. 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.

(a) 30%, Rs. 1,740
(b) 25%, Rs. 1,540
(c) 20%, Rs. 1,640
(d) 28%, Rs. 1,440

Q20. 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?

(a) 5
(b) 3
(c) 6
(d) 4

GENERAL INTELLIGENCE AND REASONING

Q21. In onion peel and human cheek cells, the lightly stained region enclosed by the cell membrane is called:

(a) Vacuole
(b) Nucleus
(c) Cytoplasm
(d) Cell wall

Q22. 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.

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

Q23. 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'?

(a) Father's brother
(b) Mother
(c) Daughter
(d) Father's sister

Q24. 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:

(a) 5 4⁄5
(b) 4 4⁄5

(c) 6 4⁄5
(d) 7 4⁄5

Q25. What will come in the place of '?' in the following equation, if '+' and '-' are interchanged and '×' and '÷' are interchanged?

18 - 36 ÷ 10 × 20 + 34 = ?

(a) 3
(b) 2
(c) 4
(d) 0

Q26. A student's marks were incorrectly entered as 70 instead of 91. Due to this, the average marks of the class got decreased by 2 1⁄3. What is the number of students in the class?

(a) 3
(b) 9
(c) 8
(d) 17

Q27. 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?

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

Q28. 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'?

(a) Brother's daughter
(b) Father's brother's daughter
(c) Father's daughter
(d) Father's brother's wife

Q29. Among the following, which structure is cup shaped at one end of coiled tube in kidney?

(a) Collecting duct
(b) Loop of Henley
(c) Bowman's capsule
(d) Glomerulus

Q30. 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?

(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

Q31. In the following figure, RS || TU. Find the value of angle PQR − angle PRQ, if angle QTU + angle PRQ = 130° and angle RPQ = 80°.

[Figure: see this question online]

(a) 50°
(b) 65°

YourMockTest.com — Free Study Material

(c) 70°
(d) 45°

Q32. What should come in place of the question mark (?) in the given series based on the English alphabetical order?

TKB ULG VML WNQ ?

(a) YQW
(b) XQW
(c) YOX
(d) XOV

Q33. In two triangles, ΔABC ~ ΔPQR, AB=12cm and PQ=4cm, if AL and PM are altitudes of the respected triangles, then what will be AL:PM?

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

Q34. 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.

(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

Q35. 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?

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

Q36. 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

(a) 29 - 41
(b) 40 - 54
(c) 56 - 69
(d) 70 - 83

Q37. Which award, one of India’s highest honours in the livestock and dairy sector, was announced in November 2025?

(a) Rajyotsava Awards
(b) CII Quality Ratna Award
(c) National Gopal Ratna Awards
(d) Padma Shri

YourMockTest.com — Free Study Material

Q38. 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.

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

Q39. 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?

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

Q40. 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. 80, then what is the sum (in Rs.)?

(a) 68
(b) 57
(c) 64
(d) 59

Q41. 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.)

(a) 489
(b) 492
(c) 495
(d) 487

Q42. Simplify: [Formula above]

(a) 0.000999
(b) 0.0000999
(c) 0.0999
(d) 0.00999

Q43. 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?

(a) 6
(b) 1
(c) 5
(d) 2

YourMockTest.com — Free Study Material

Q44. 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) HL−JN
(b) NR−OV
(c) MQ−OS
(d) TX−VZ

Q45. 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

(a) CZS : EWU
(b) SRL : UOM
(c) KKE : MHF
(d) AVU : CRW

BASIC SCIENCE AND ENGINEERING

Q46. 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

(a) 80
(b) 88
(c) 71
(d) 68

Q47. A shopkeeper bought six identical mobile phones for Rs. 72000, and sold two of them for Rs. 72000. Find his gain percentage.

(a) 200%
(b) 203%
(c) 1.97%
(d) 201%

Q48. A car falls off a ledge and drops to the ground in 0.6 s. Take g = 10 m/s². What is the car's speed on striking the ground?

(a) 10 m/s
(b) 3 m/s
(c) 12 m/s
(d) 6 m/s

Q49. The price of an article was Rs. 1700. It increased by 5% in the first year and by 20% in the second year. What is the price (in Rs.) of the article after two years?

(a) 1885
(b) 2040
(c) 2142
(d) 2125

Q50. 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

(a) 29
(b) 40

YourMockTest.com — Free Study Material

(c) 36.5
(d) 32.8

Q51. 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?
(a) 35
(b) 36
(c) 42
(d) 54

Q52. What sum (in Rs.) will earn an interest of Rs. 460 in 4 years at 5% simple interest per year?
(a) 2500
(b) 2300
(c) 2450
(d) 2100

Q53. Two pipes, A and B, can fill a water tank in 1 hour and [Formula above] 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?
(a) 27 minutes
(b) 24 minutes
(c) 30 minutes
(d) 25 minutes

Q54. 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:
(a) Diffraction of light
(b) Dispersion of light
(c) Atmospheric refraction of light
(d) Reflection of light

Q55. 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:
(a) 32
(b) 40
(c) 36
(d) 34

Q56. 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 Q 4) P 6 R 10 P 3 = ?
(a) 60
(b) 40
(c) 80
(d) 45

Q57. 4% of a number is approximately what percentage of 18% of the same number?
(a) 18.18%
(b) 22.22%
(c) 450%
(d) 9.09%

Q58. If 2a = 32, b^4 = 81, and b > 0, then what is the value of ab?
(a) 216
(b) 64
(c) 125

YourMockTest.com — Free Study Material

(d) 27

Q59. 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 C 112 A 7 B 4 D 40 = ?

(a) 99
(b) 94
(c) 97
(d) 98

Q60. 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) IJ-KL
(b) AB-CA
(c) EF-GH
(d) MN-OP

Q61. 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?

(a) Two
(b) Three
(c) Four
(d) One

Q62. 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) MRY
(b) JOU
(c) QVB
(d) DIO

Q63. 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?

(a) Q
(b) P
(c) N
(d) M

Q64. 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: (Take $\pi = 22/7$)

(a) 13.11
(b) 14.12
(c) 11.65
(d) 12.97

Q65. A shopkeeper sells an item for Rs. 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 Rs.) of the item?

(a) 2,375
(b) 2,397
(c) 2,359
(d) 2,333

YourMockTest.com — Free Study Material

Q66. What should come in place of the question mark (?) in the given series?

192 185 198 191 204 197 210 ?

(a) 205
(b) 201
(c) 206
(d) 203

Q67. 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?

(a) J
(b) S
(c) M
(d) F

Q68. The Attorney General of India is the highest law officer of the country appointed by whom?

(a) The seniormost Judge of Supreme Court
(b) The President of India
(c) The Prime Minister of India
(d) The Chief Justice of India

Q69. 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?

(a) 4
(b) 8
(c) 5
(d) 7

Q70. What should come in place of ? in the given series?

56 68 87 113 146 ?

(a) 188
(b) 185
(c) 187
(d) 186

Q71. 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?

(a) 6
(b) 8
(c) 4
(d) 2

Q72. 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?

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

YourMockTest.com — Free Study Material

Q73. What property of gases allows them to fill any container completely?

(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.

Q74. 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?

(a) 8
(b) 7
(c) 1
(d) 4

Q75. 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:

(a) 6
(b) 15
(c) 10
(d) 14

ANSWER KEY

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

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

YourMockTest.com — Free Study Material