RRB ALP CBT I 20 Aug 2018 Shift 3 Official Paper (Previous Year Paper)

RRB Assistant Loco Pilot (ALP) • 2018 • 75 questions • 60 minutes • Answer key

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STAGE I (CBT I)

Q1. If + means ÷, ÷ means -, - means ×, × means +, then 10 + 5 ÷ 7 - 4 × 30 = ?

(a) 4
(b) 8
(c) 10
(d) 6

Q2. The dates 3rd April, 2005; 6th August, 2010 and 5th December, 2013 when written in Date-Month-Year Form have a unique mathematical property. The Indian Independence Day of which year among the following has the same property?

(a) 2017
(b) 2016
(c) 2018
(d) 2015

Q3. Which of the following numbers is composite?

(a) 241
(b) 261
(c) 271
(d) 251

Q4. Consider the given statement to be true even if they seem to be at variance with the commonly known facts and decide which of the given conclusions logically follows from the given statement.

Statement:

This bowl has soup.

Conclusion:

I. The bowl has tomato soup

II. The soup is too hot.

(a) Only I is correct
(b) Both I and II are correct
(c) Neither I nor II is correct
(d) II only is correct

Q5. The median of the numbers 4, 2, 2, 6, 3 and 8 is:

(a) 4.5
(b) 3.5
(c) 4
(d) 3

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Q6. Pick the odd one out from the following:

(a) NaOH
(b) Cu(OH)2
(c) NH4OH
(d) Zn(OH)2

Q7. “Gain 5 kgs in 3 sessions” – an advertisement

Assumption 1: “if you continue for 6 sessions you will lose 10 kgs”.

Assumption 2. “The company is dealing with weight gain programs”.

(a) Neither I nor II is implicit
(b) II only is implicit
(c) I only is implicit
(d) Either I or II is implicit

Q8. Who is the Union Minister of the Ministry of Commerce and Industry as of February 2018?

(a) Suresh Prabhu
(b) Sushma Swaraj
(c) Anand Geete
(d) Uma Bharti

Q9. Which of the following statement is sufficient to answer the question?

How is Bhavana(girl) related to Sathish?

Statements:

I: Bhavana’s mother is Rajyam

II: Rajyam’s son is Satish

(a) Neither I nor II is sufficient
(b) Both I and II are sufficient
(c) Only I is sufficient while II is not
(d) Only II is sufficient while I is not

Q10. Raman told Ananth “Day before yesterday I taught the only brother of the daughter of my paternal grandmother”, To whom did Raman teach?

(a) Brother
(b) Son
(c) Father-in-law
(d) Father

Q11. Sahil sold an item for Rs. 280 at a loss of 20%. The cost price of the item was:

(a) Rs. 336
(b) Rs. 340
(c) Rs. 350
(d) Rs. 1,400

Q12. Which of the following animals can change their sex?

(a) Planarian
(b) Snail
(c) Ascaris
(d) Nereis

Q13. Which of the following can undergo Sublimation?

(a) Ammonium chlorate
(b) Ammonium sulphate
(c) Ammonium chloride
(d) Ammonium sulphide

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Q14. Paul Revere was a patriot in the American Revolution against the British. Name the city where he lived and died. The Paul Revere House is still located in this city.

(a) Chicago
(b) Boston
(c) Pennsylvania
(d) Florida

Q15. A and B can complete a piece of work in 10 days and 15 days respectively. B starts the work and is joined by A after 5 days. If they earn a total of Rs. 60, what are their individual shares?

(a) Rs. 24, Rs. 36
(b) Rs. 30, Rs. 30
(c) Rs. 20, Rs. 40
(d) Rs. 25, Rs. 35

Q16. Find the next two terms in the series.

J-11, L-13, N-15, P-17, ?, ?

(a) C-3, H-8
(b) R-18, V-22
(c) R-19, T-21
(d) O-15, R-16

Q17. Read the statements and identify the logically correct conclusion from the given information.

Statement:

This scale is transparent.

Conclusions:

I. The scale is made up of glass.

II. The scale is made up of plastic.

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

Q18. When electricity is passed through an aqueous solution of sodium Chloride (brine), it decomposes to form:

(a) NaOH + H2 + CI2
(b) NaOH + H2 + O2
(c) NaOH + HCI + H2
(d) NaOH + H2 + N2

Q19. India-born Indira Nooyi is the Chief Executive Officer (CEO) of which of the following companies?

(a) Microsoft
(b) Amazon
(c) Coca Cola
(d) PepsiCo

Q20. The universal natural auxin of plants is:

(a) IBA
(b) citric auxin
(c) NAA
(d) IAA

Q21. Which Indian badminton player won the silver medal in the 2016 Rio Olympics?

(a) Sania Mirza
(b) PV Sindhu
(c) Saina Nehwal

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(d) Rituparna Das

Q22. Two water-squash mixtures, the first having a water-to-squash ratio of 4 : 1 and the other having a ratio of 3 : 1, are blended in the ratio 1 : 2. What is the water : squash ratio in the blend?

(a) 19 : 11
(b) 23 : 7
(c) 17 : 13
(d) 4 : 3

Q23. The number of electrons that can be accommodated in the M shell is _____.

(a) 18
(b) 8
(c) 2
(d) 32

Q24. What is the principal focus of a spherical mirror?

(a) It is a point from which the rays of light appear to be coming from on the principal axis of a convex mirror.
(b) It is the point on the principal axis through which rays of light parallel to the principal axis pass after reflection or appear to be arising from this point on the principal axis.
(c) It is the centre of a hollow sphere of which the spherical mirror is a part.
(d) It is the midpoint of a spherical mirror.

Q25. Consider the given statement to be true even if they seem to be at variance with the commonly known facts and decide which of the given conclusions logically follows from the given statement.

Statement:

Some tigers are cats. All the cats are rats.

Conclusions:

1) All the rats are cats.

2) Some of the tigers are rats.

(a) Both (1) and (2) follow
(b) Only (1) conclusion follows
(c) Neither (1) nor (2) follows
(d) Only (2) conclusion follows

Q26. If tangents PA and PB from a point P to a circle with centre O are inclined to each other at an angle of 110° then angle POA is:

(a) 50°
(b) 70°
(c) 35°
(d) 45°

Q27. The definition of Force can be stated from _____.

(a) Newton’s second law of motion
(b) Newton’s first law of motion
(c) Newton’s third law of motion
(d) Newton’s law of gravitation

Q28. Vani is facing East direction. She turns 90° clockwise then 135° Anticlockwise and 45° clockwise, then in which direction she is facing now?

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

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Q29. $\sin\theta.\cos(90° - \theta) + \cos\theta.\sin(90° - \theta) = ?$

(a) 1
(b) 2
(c) -1
(d) 0

Q30. 0.196 + 1.96 + 19.6 + 196 = ?

(a) 217.756
(b) 216.856
(c) 216.756
(d) 217.676

Q31. 182/130 when written in the simplest form is:

(a) 28/10
(b) 91/65
(c) 14/12
(d) 7/5

Q32. Which of the following metals reacts vigorously with cold water?

(a) Potassium
(b) Aluminium
(c) Zinc
(d) Iron

Q33. Consider the question given and decide which of the following statement(s) is/are sufficient to answer the question.

Find the age of the mother from the given statements.

Statements:

I: Mother’s age is 10 years more than her son's age.

II: Son’s age is 24 years more than the daughter's age.

(a) Only II is sufficient while I is not
(b) Neither I nor II is sufficient
(c) Both I and II are sufficient
(d) Only I is sufficient while II is not

Q34. Which part of the human reproductive system helps the embryo get its nutrition from the mother’s blood?

(a) Placenta
(b) Fallopian tube
(c) Uterus
(d) Cervix

Q35. Which of the following statement is sufficient to answer the question?

Find the value of x, if x is a smaller number out of two numbers.

Statements:

I: Sum of squares of positive consecutive even numbers is 52.

II: Difference of the number is 2

(a) Both I and II are sufficient
(b) Only II is sufficient while I is not
(c) Only I is sufficient while II is not
(d) Neither I nor II is sufficient

Q36. Find the person who does not belong to the group

(a) Mahendra Singh Dhoni
(b) Sunita Williams
(c) Kalpana Chawla

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(d) Rakesh Sharma

Q37. An object of 5.0 kg is raised through a height of 2.0 m. The work done in the process is:
(Take g = 9.8m/s2)

(a) 49 J
(b) 10 J
(c) 19.6 J
(d) 98 J

Q38. Yaman sold an item at a loss of 10%. If he had sold it for Rs. 57 more, he would have made a profit of 20%. What should be the selling price of the item to make a profit of 30%?

(a) Rs. 247
(b) Rs. 190
(c) Rs. 228
(d) Rs. 222.30

Q39. If x stands for -, ÷ stands for +, + stands for ÷ and - stands for x, which of the following gives 125 - 50 ÷ 10 + 20 × 4?

(a) 360
(b) 315
(c) 6246.5
(d) 420

Q40. If P is the brother of the son of Q's Son, how is P related to Q?

(a) Brother
(b) Son
(c) Grand son
(d) Cousin

Q41. Find the person who does not belong to the group

(a) Pentala Harikrishna
(b) Vishwanadhan Anand
(c) Saina Nehwal
(d) Koneru Hampi

Q42. The HCF of 24, 60 and 90 is:

(a) 3
(b) 6
(c) 12
(d) 4

Q43. Satheesh is two years older than Goutam who is twice as old as Sai. If the total of the ages of Satheesh, Goutam and Sai is 27, then how old is Goutam?

(a) 12
(b) 10
(c) 11
(d) 13

Q44. According to Newlands' Law of Octaves, how many elements exist in nature?

(a) 56
(b) 66
(c) 55
(d) 65

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Q45. Which of the following is used in the preparation of tincture iodine, cough syrup and many tonics?

(a) Methanol
(b) Ethanoic acid
(c) Acetic acid
(d) Ethanol

Q46. If in a certain language, TREE is coded as USFF, then how is MANGO coded in that language?

(a) BHONC
(b) NOPHB
(c) NBOHP
(d) OPHNB

Q47. Which author employed India's obsession with cricket as the theme for his recent book 'Selection Day'?

(a) Vikram Seth
(b) Anil Menon
(c) Amish Tripathi
(d) Aravind Adiga

Q48. The mass of one molecule of oxygen is _____

(a) 2.3 × 10^(-23)g
(b) 3.3 × 10^(-23) g
(c) 4.3 × 10^(-23) g
(d) 5.3 × 10^(-23) g

Q49. Find the next two terms in the series.

J, L, O, S, ?, ?

(a) Y, B
(b) X, Z
(c) X, D
(d) A, B

Q50. Which of the following numbers is divisible by 12?

(a) 53412
(b) 43412
(c) 33412
(d) 63412

Q51. An object having a mass 'm' moving with a velocity 'v' possesses a kinetic energy 'K'. if its velocity is doubled, its kinetic energy will become:

(a) K/2
(b) 2K
(c) 4K
(d) K/4

Q52. A sequence a, ax, ax^2, _____ ax^n, has odd number of terms. Then the median is

(a) ax^(n/2 + 1)
(b) ax^(n/2 - 1)
(c) ax^(n - 1)
(d) ax^(n/2)

Q53. The present ages of Kavitha, Rajitha and Haritha are in the ratio of 4 : 7 : 9. Eight years ago, the sum of their ages was 56. Find the present ages (in years).

(a) 16, 36, 28
(b) 16, 28, 36
(c) 20, 35, 45

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(d) 12, 21, 27

Q54. Consider the given statement to be true even if they seem to be at variance with the commonly known facts and decide which of the given conclusions logically follows from the given statement.

Statement:

Some spoons are glasses.

All the plates are glasses.

Conclusions:

1. Some glasses are plates
2. Some glasses are spoons

(a) Only (1) conclusions follows
(b) Only (2) conclusions follows
(c) Both (1) and (2) follows
(d) Neither (1) or (2) follows

Q55. 10 people could complete a task in 8 days. After 4 days, 2 of the workers left. How many days from then did it take to complete the remaining task?

(a) 7
(b) 8
(c) 6
(d) 5

Q56. Solve the following:

23 - [23 - {23 - (23 - 23 + 23)}]

(a) -1
(b) 23
(c) 1
(d) 0

Q57. Who among these union ministers in the PM Narendra Modi cabinet belongs to the Shiv Sena party?

(a) Sadanand Gowda
(b) Nitin Gadkari
(c) Anant Geete
(d) Uma Bharti

Q58. Which of the following statement is sufficient to answer the question?

Find the values of x, y, z from the given statements.

Statements:

I: x + y = 12 : x + z = 4

II: x - y = 6

(a) Only II is sufficient while I is not
(b) Neither I nor II is sufficient
(c) Both I and II are sufficient
(d) Only I is sufficient while II is not

Q59. A man lifts a luggage of 25 kg from the ground and puts it on the head, 2.5 m above the ground. If the value of g = 10 ms^(-2), then the value of work done by him on the luggage is:

(a) 22.5 J
(b) 225 J
(c) 625 J
(d) 220 J

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Q60. Which group of animals are exclusively free-living marine animals?

(a) Arthropoda
(b) Echinodermata
(c) Mollusca
(d) Nematoda

Q61. Find the next term in the series.

X, V, T, R, P, ?

(a) H
(b) L
(c) O
(d) N

Q62. After buying a toy for Rs. 45, Raghu managed to sell it at a profit of 15%. The selling price of the toy was:

(a) Rs. 50.75
(b) Rs. 60
(c) Rs. 51.25
(d) Rs. 51.75

Q63. What will be the acute angle between the hour-hand and the minute-hand at 2:13 p.m?

(a) 16.5°
(b) 18°
(c) 13.5°
(d) 11.5°

Q64. Which mobile manufacturing company won the rights in 2017 to be the sponsor of the Indian male Cricket Team for five years?

(a) Micromax
(b) Oppo
(c) BlackBerry
(d) Karbonn

Q65. Find the next terms in the series.

3G, 6H, 11J, 18M, ?

(a) 20U
(b) 27Q
(c) 27V
(d) 18P

Q66. The Kambala festival of Karnataka is essentially associated with what?

(a) Cock fighting
(b) Buffalo race
(c) Tribal dance
(d) Bull fighting

Q67. Name the spiritual leader who was honoured with a humanitarian award by a prominent Jewish human rights organization for promoting human dignity, interfaith relations and tolerance among people.

(a) Asharam Bapu
(b) Baba Ramdev
(c) Sri Sri Ravi Shankar
(d) Morari Bapu

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Q68. Which of the following statements is true?

The velocity of sound is:

(a) less in summer than in winter
(b) same in winter and summer
(c) independent of seasons
(d) more in summer than in winter

Q69. Which of the following has low resistivity?

(a) Nichrome
(b) Glass
(c) Ebonite
(d) Diamond

Q70. Read the question and answer from the given information:

Should the government stop permission to new industries?

Argument 1: Yes, new industries create environment pollution.

Argument 2: No, New industries improves employment and takes part in economic growth of country.

(a) Only II is correct
(b) Neither I nor II is correct
(c) Either I or II is correct
(d) Only I is correct

Q71. What will be next number in the series?

0, 1, 4, 27, 16, 125, 36, ?

(a) 343
(b) 144
(c) 72
(d) 25

Q72. Read the question and answer from the given information:

Pravalika is studying 10^(th) class. Is Pravalika elder than Pranitha who is her classmate?

Argument 1: Yes, as she is her classmate Pranitha is younger to her.

Argument 2: No, as she is classmate Pranitha is elder to her.

(a) Neither I nor II follow
(b) Either I or II follow
(c) Only II follow
(d) Only I follow

Q73. Which of these cities located in the state of Gujarat is famous for its diamond industry?

(a) Vadodara
(b) Ahmedabad
(c) Rajkot
(d) Surat

Q74. Mamatha is walking towards North. After walking 4 kms, she turns right and then walks for 3 kms. Now how far and in which direction is she from the starting point.

(a) 6kms – N-W
(b) 7kms – West
(c) 5kms – S-E
(d) 5kms – NE

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Q75. If a ball is thrown vertically upwards with a velocity of 40 m/s, then what will be the magnitude of its displacement after 6 s?

(Take g = 10 m/s²)

(a) 80 m
(b) 40 m
(c) 60 m
(d) 20 m

ANSWER KEY

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

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