RRB ALP CBT I 21 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. What day would it be on 1 September 2020?

(a) Tuesday
(b) Thursday
(c) Wednesday
(d) Monday

Q2. Amit and Ritu are a couple. Mrinal and Shonal are brothers. Mrinal is the brother of Ritu.
How is Shonal related to Amit?

(a) Brother
(b) Uncle
(c) Brother-in-law
(d) Cousin

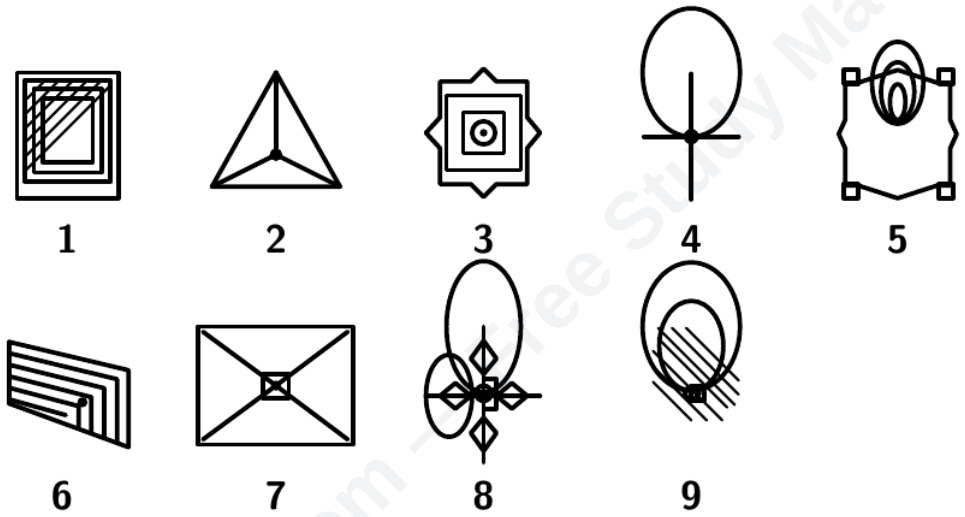
Q3. If $a^2 + 1/(a^2) = 3$, then $a^3 + 1/(a^3) = ?$

(a) $2\sqrt{3}$
(b) $2\sqrt{5}$
(c) $3\sqrt{3}$
(d) $3\sqrt{5}$

Q4. An object, starting from rest, moves with constant acceleration of 4 m/s². After 8 s, its speed is:

(a) 8 m/s
(b) 32 m/s
(c) 4 m/s
(d) 16 m/s

Q5. If three group could be formed using the given figures only once, these group would be _____.



(a) (1, 9, 6), (2, 4, 8), and (3, 5, 6)
(b) (1, 9, 6), (2, 4, 7), and (3, 5, 8)
(c) (1, 5, 6), (3, 4, 7), and (2, 9, 8)
(d) (1, 9, 6), (2, 5, 7), and (3, 4, 8)

Q6. A can work twice as fast as B. A and C together can work thrice as fast as B. If A, B and C complete a job in 30 days working together, in how many days can each of them complete the work?

(a) 60, 120, 120
(b) 50, 100, 120
(c) 60, 100, 80
(d) 40, 80, 100

Q7. 3/5 + 3/7 = ?

(a) 11/35
(b) 6/35
(c) 9/35
(d) 6/12

Q8. A source maintains a current I in a resistor of resistance R. If V is the potential difference across the resistor, the electrical energy dissipated in the resistor in time t is given by _____.

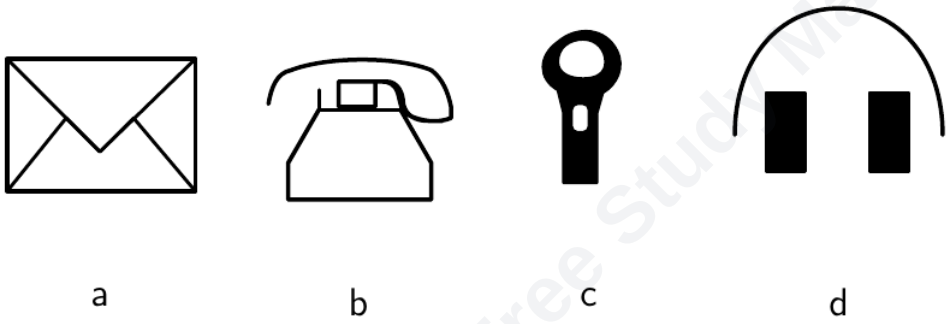
(a) V^2
(b) IR^3t
(c) VIt
(d) VI^2t

Q9. Fill in the blank with the most appropriate option.

An element attains stability when it achieves _____ state.

(a) an only-duplet
(b) a duplet or octet
(c) an only-octet
(d) a heptane

Q10. Select the odd figure in the given series.



a b c d

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

Q11. If the electronic configuration of element A' and B' are $1s^2$, $2s^22p^6$, $3s^1$ and $1s^2$,$2s^22p^6$,$3s^2$,$3p^4$ respectively, then the formula of the compound formed by the combination of these elements will be:

(a) AB3
(b) A2B
(c) AB
(d) AB2

Q12. Which of the following is not a hormone found in animals?

(a) Insulin
(b) Auxins
(c) Adrenaline
(d) Thyroxin

Q13. Consider the given statement and decide which of the given assumption/s is/are implicit.

Statement:

Serials/soaps are a reason for developing negative tendencies in women.

Assumptions:

I: Newspapers highlight the negative aspects first and then, the positive aspects.

II: The attention given to the negative aspects is much higher than that given to the positive aspects.

(a) Both assumptions I and II are implicit
(b) Only assumption II is implicit
(c) Only assumption I is implicit
(d) None of the assumptions are implicit.

Q14. A sump is filled by three tankers with uniform flow. The first two tankers operating simultaneously fill the sump in the same time during which the sump is filled by the third tanker alone. The second tanker fills the sump 5 hours faster than the first tanker and 4 hours slower than the third tanker. The time required by the first tanker is:

(a) 10 hours
(b) 15 hours
(c) 16 hours
(d) 9 hours

Q15. The 2016 black comedy crime thriller `Udta Punjab' is loosely based on which of the following?

(a) Partition problems in Punjab
(b) Drug abuse in Punjab
(c) Wheat harvest in Punjab
(d) Child labour in Punjab

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Q16. A shopkeeper allows a discount of 20% to his customers and still gains 25%. Find the Marked price of an article which costs Rs.600 to the shopkeeper.

(a) Rs. 937.50
(b) Rs. 930
(c) Rs. 1,000
(d) Rs. 937

Q17. Consider the given question and decide which of the following statements is sufficient to answer the question.

Does the children's ability to grasp ideas in school depend on their intelligence?

Statements:

1. Intelligence is unaffected by bad teaching.
2. Poor children do not perform well in the school.

(a) Neither 1 nor 2 is sufficient.
(b) Statement 1 alone is sufficient while statement 2 alone is insufficient.
(c) Statement 2 alone is sufficient while statement 1 alone is insufficient
(d) Both 1 and 2 are sufficient

Q18. Who wrote the book ‘Immortal India’ published in 2017?

(a) Chetan Bhagat
(b) Amish Tripathi
(c) Aravind Adiga
(d) Vikram Seth

Q19. Which city in Australia is hosted the 2018 Commonwealth Games?

(a) Adelaide
(b) Gold Coast
(c) Hobart
(d) Perth

Q20. Which of the following is NOT a property of bases?

(a) They have bitter taste
(b) They turn blue litmus red
(c) They react with acids and neutralise them
(d) They turn red litmus blue

Q21. Surbhi invested Rs. 6000 for 5 months and Urba invested Rs. 5000 for 6 months in a venture. Find the ratio in which they will share the profits.

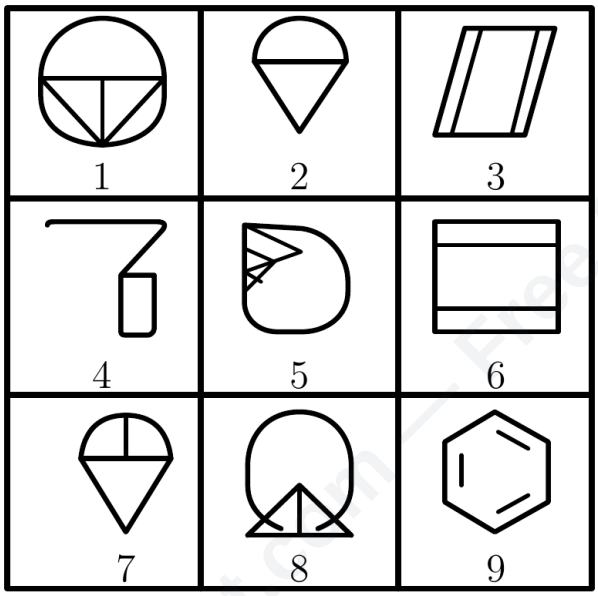
(a) 5 : 6
(b) 6 : 5
(c) 36 : 25
(d) 1 : 1

Q22. Facing South, X turns 225° clockwise and then 90° anti-clockwise. What direction is X facing now?

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

Q23. If three group could be formed using the given figures only, these groups would be _____.

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(a) (8, 3, 6), (2, 4, 7) and (1, 5, 9)
(b) (9, 3, 6), (2, 4, 7) and (1, 5, 8)
(c) (9, 3, 7), (2, 4, 6) and (1, 5, 8)
(d) (9, 3, 6), (2, 5, 7) and (1, 4, 8)

Q24. Who is the current (as of February 2018) Deputy Speaker of the Indian Lok Sabha?
(a) V Satyabhama
(b) M Thambidurai
(c) Anbumani Ramadoss
(d) K Parasuraman

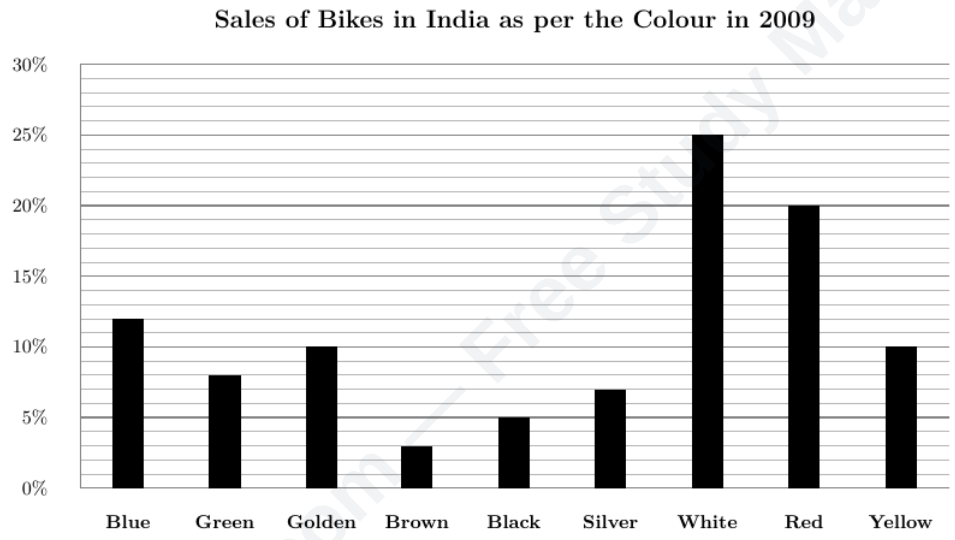
Q25. Read the following question and decide which of the given statements is/are sufficient.
In a class of 51 students, how many girls scored above 80% in Maths?
Statements:
1. Exactly four boys scored above 80% in Maths.
2. One-third of the class scored above 80% in Maths.
(a) Both 1 and 2 together are sufficient to answer the question.
(b) 2 alone is sufficient while 1 alone is not sufficient to answer the question.
(c) 1 alone is sufficient while 2 alone is not sufficient to answer the question.
(d) Either 1 or 2 is sufficient to answer the question.

Q26. Which team won the 2017 Santosh Trophy, the final of which was held in Bambolim, Goa.
(a) Goa
(b) Kerala
(c) West Bengal
(d) Services

Q27. Type 1 workers are 2.5 times efficient than Type 2 workers. Twelve Type 1 workers can complete a task in 10 days. How many days would be taken 4 Type 1 and 15 Type 2 workers to do the same work?
(a) 10
(b) 13
(c) 12
(d) 11

Directions

Direction: Study the Bar graph carefully and answer the following question



Q28. If the total number of bikes sold in 2009 was 6000, then according to the given data, bikes of which colour were sold equally?

(a) Yellow and green put together and golden
(b) Silver and green put together and golden
(c) Brown and black put together and green
(d) Blue and green put together and golden

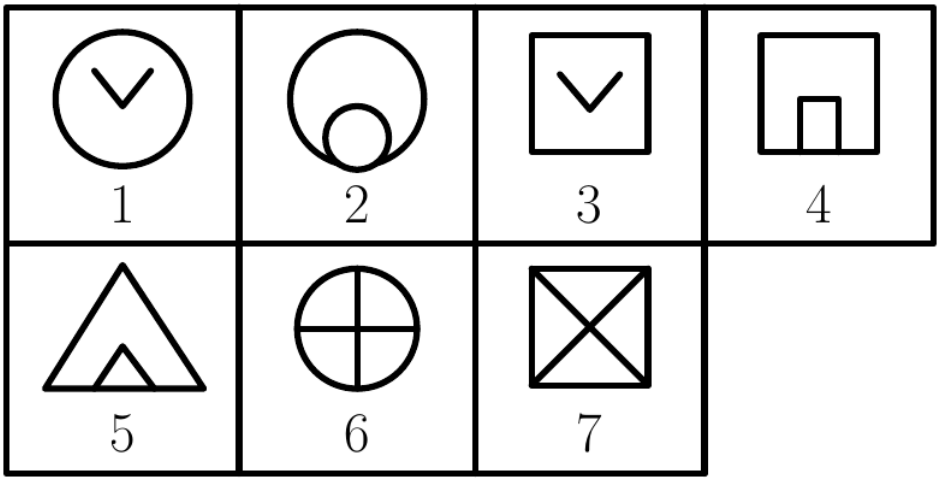
Q29. Which American of Indian descent has recently been appointed as the President of the US-Indian Business Council?

(a) Nina Davuluri
(b) Asim Ghosh
(c) Prith Banerjee
(d) Nisha Desai Biswal

Q30. The LCM of the three numbers 45, 30 and 35 is:

(a) 420
(b) 840
(c) 630
(d) 180

Q31. Use each of the following figures only once to form three group. The three groups Thus, formed are:



(a) (1, 3), (2, 5, 4), (6, 7)
(b) (1, 7), (2, 5, 4), (6, 3)
(c) (1, 3), (2, 6, 4), (5, 7)
(d) (7, 3), (2, 5, 4), (6, 1)

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Q32. Which type of reaction occurs when carbon burns in oxygen to give carbon dioxide?

(a) Addition reaction
(b) Combustion reaction
(c) Decomposition reaction
(d) Substitution reaction

Q33. I, L, O, R, ?

In the following series, one letter is missing as shown by the question mark (?). Select the missing letter from the given options.

(a) U
(b) W
(c) V
(d) X

Q34. The area of a rhombus is 24 m^2 and the length of one of its diagonals is 8 m. The length of each side of the rhombus will be:

(a) 10 m
(b) 5 m
(c) 4 m
(d) 6 m

Q35. Which of the following numbers is composite?

(a) 67
(b) 37
(c) 57
(d) 47

Q36. The Magdalena River is one of the largest River's basins of South America. Through which country does it flow?

(a) Brazil
(b) Argentina
(c) Chile
(d) Columbia

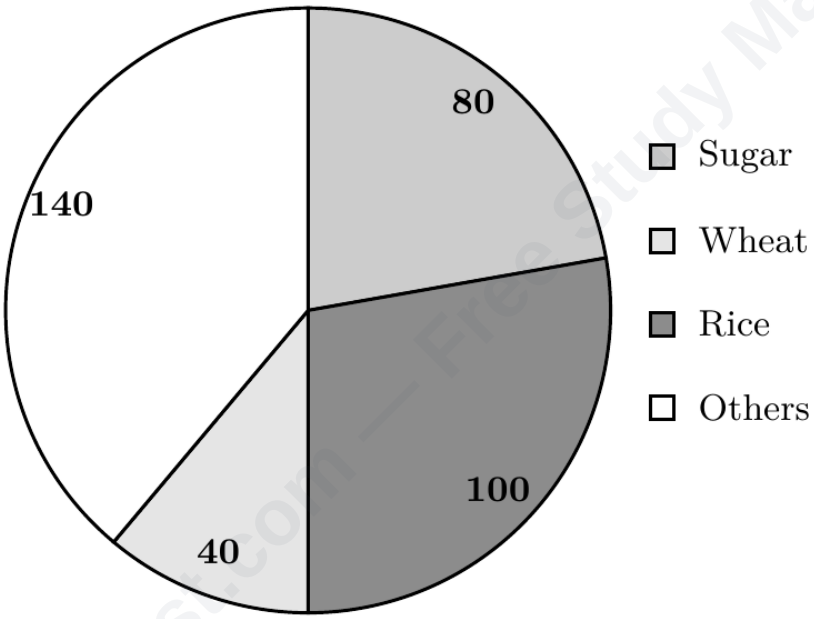
Q37. Which of the following is used as a catalyst in the hydrogenation of vegetable oil?

(a) Pb
(b) Ni
(c) H2
(d) He

Directions

Direction: The pie chart represents the annual yield in tons of a certain place. Study the chart carefully and answer the following question.

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Q38. If the yield of sugar is 6000 tons then the yield of wheat will be _____ tons.

(a) 7000
(b) 7200
(c) 7500
(d) 6800

Q39. BR4AQ16HI

B R 4 A Q 1 6 H I

The mirror image of the above figure is

(a)

IHAQЯ4ИAB

(b)

I H a r O A N R B

(c)

I H 6 1 Q A 4 R B

(d)



Q40. A natural number, when divided by 5, 6, 7 or 8, leaves a reminder of 4 in each case. What is the smallest of all such numbers?

(a) 1264
(b) 844
(c) 424
(d) 214

Q41. Who first discovered that every eighth element had properties similar to that of the first?

(a) Newlands
(b) Dobereiner
(c) Moseley
(d) Mendeleev

Q42. Which of the following is the largest group of animals?

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

Q43. If the equations 6x – 5y + 11 = 0 and 15x + ky – 9 = 0 have no solution, then the value of k is:

(a) -12.5
(b) 12.5
(c) -18
(d) 18

Q44. sin^4A - cos^4A = 1, then A/2, in degree, is (0 < A ≤ 90°) -

(a) 60
(b) 30
(c) 40
(d) 45

Q45. Burning Magnesium ribbon produce white ash, which dissolves in water to form _____.

(a) Magnesium Hydroxide
(b) Magnesium Oxide
(c) Magnesium Halides
(d) Magnesium Sulphate

Q46. Select the related word from the alternatives.

Nation : History : : Man : _____ ?

(a) Film
(b) Geography
(c) Novel
(d) Biography

Q47. A 5 kg object is raised through a height of 4 m. The Work done by the force of gravity acting on the object is (take g = 10 m/s²):

(a) 200 J
(b) –200 J
(c) 20 J

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(d) -20 J

Q48. The group of crop plants that are vegetative propagated is:

(a) sugarcane, potato and banana
(b) potato, papaya and banana
(c) onion, coriander and lime
(d) groundnut, drumstick and cashew nut

Q49. India became the first country to partner with which global company on Disaster Response Management?

(a) Microsoft
(b) Facebook
(c) Twitter
(d) Google

Q50. If one needs to score 34% to pass a test, the pass marks out of 40 would be:

(a) 13.2
(b) 14.6
(c) 14.2
(d) 13.6

Q51. U, O, I, ?, A

Select the letter missing from the following series.

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

Q52. An echo is returned in 3 s. What is the distance of the reflecting surface from the source, considering the speed of sound as 342 ms^(-1)?

(a) 644 m
(b) 171 m
(c) 342 m
(d) 513 m

Q53. Read the following question and decide which of the given arguments is/are strong.

Question: Should CBSE introduce the retention system till Class 10?

Argument 1: Yes, as the foundations laid in lower classes are important for higher education.

Argument 2: No, it is boring for a student to repeat the same class again.

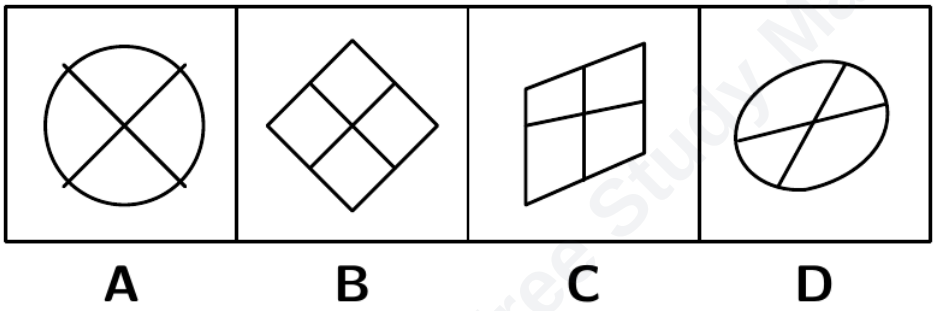
(a) Neither argument 1 nor 2 is strong
(b) Both arguments 1 and 2 are strong
(c) Only argument 1 is strong.
(d) Only argument 2 is strong.

Q54. What is the standard room temperature in Kelvin?

(a) 300 K
(b) 372 K
(c) 198 K
(d) 273 K

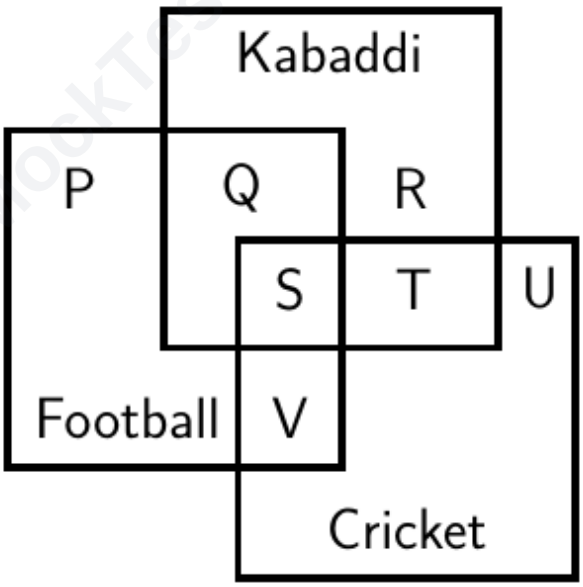
Q55. Select the figure which does NOT belong to the group.

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(a) D
(b) B
(c) C
(d) A

Q56. In the following Venn diagram which letters represent those who play Cricket and Kabaddi and which letter represents who plays all three games?



(a) S + V
(b) S + R
(c) S + Q
(d) S + T

Q57. Consider the given statements to be true and decide which of the conclusions logically follow(s) from the statements.

Statements:

All the helicopters are carriers. Some bikes are carriers.

Conclusion:

1. All the helicopters are bikes.
2. Some bikes are helicopters.

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

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Q58. The sum of the lengths of the edges of a cube is equal to the perimeter of a square. If the numerical value of the volume of the cube is equal to the numerical value of the area of the square, then the length of one side of the square is:

(a) 9 units
(b) 27 units
(c) 12 units
(d) 30 units

Q59. Consider the given statements to be true and decide which of the conclusions logically follow(s) from the statements.

Statement:

China is a communist country.

Conclusions:

1. No country in the world has a communist rule.
2. Many other countries in the world have a communist rule.

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

Q60. If V/I is a constant, it is called _____.

(a) Resistance
(b) Coulomb
(c) Current
(d) Potential difference

Q61. The number of diagonals in a decagon is:

(a) 20
(b) 10
(c) 25
(d) 35

Q62. Work done by an object on the application of a force would be zero if the displacement of the object is:

(a) positive
(b) neutral
(c) zero
(d) negative

Q63. 25 divided by 1/5 = ?

(a) 25
(b) 5
(c) 125
(d) 1/125

Q64. Who is the Chief Election Commissioner of India who took charge in January 2018?

(a) Subramanian Swamy
(b) Om Prakash Rawat
(c) Raghuram Rajan
(d) Ranjit Kumar

Q65. The primitive atmosphere was reducing because:

(a) Hydrogen atoms were few
(b) Nitrogen atoms were more
(c) Oxygen atoms were more
(d) Hydrogen atoms were active and in a greater number

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Q66. Vasco-da-Gama became the first European to reach India via the sea route in _____.

(a) 1499
(b) 1498
(c) 1489
(d) 1488

Q67. 4 + (1/6) [{-10 × (25 – 13 – 3)} ÷ (-5)] = ?

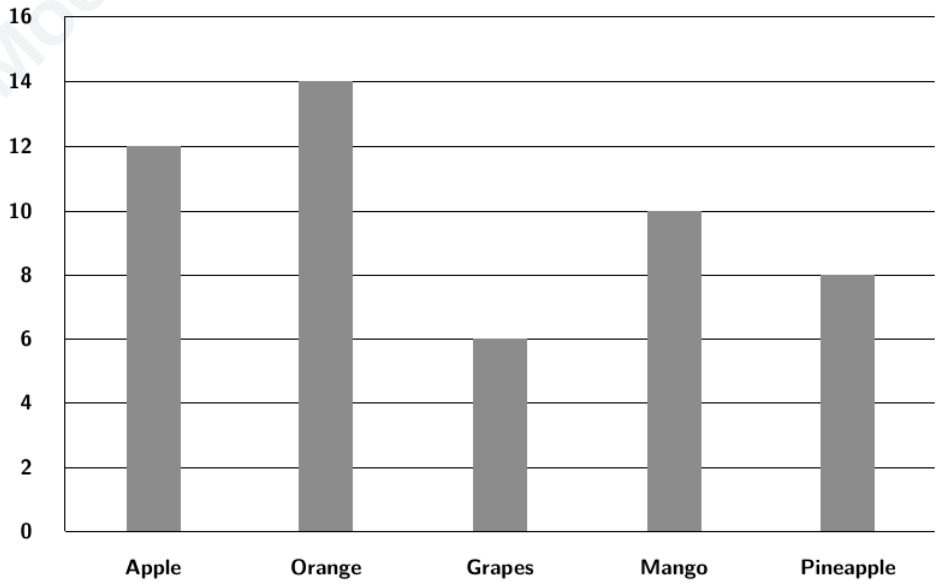
(a) 8
(b) 6
(c) 7
(d) 9

Q68. Echoes may be heard more than once due to successive or multiple _____.

(a) Diffractions
(b) Refractions
(c) Rarefactions
(d) Reflections

Directions

Direction: The bar graph represents the favourite fruits of Grade 4 students. Study the graph carefully and answer the following question.



Q69. What is the total number of students in the class?

(a) 54
(b) 48
(c) 50
(d) 52

Q70. Choose the correct alternative which will complete the following series:

21, 55, 19, 45, 17, 35, ?

(a) 12
(b) 15
(c) 14
(d) 13

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Q71. Consider a planet whose mass and radius are both twice the mass and radius of Earth. The acceleration due to gravity on the surface of the planet is n times that on Earth. The value of n is:

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

Q72. Consider the given statement as true and decide which of the given conclusions can definitely be drawn from the given statements.

Statement:

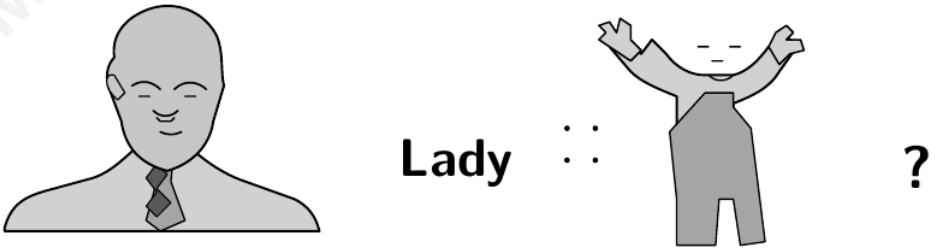
No dog is a cat. Some cats are rats. All rats are pigs.

Conclusions:

1. All dogs are rats.
2. All pigs are rats.
3. Some pigs are cats.
4. No pig is a dog.

(a) Only conclusion 1 and 2 follows
(b) Only conclusion 3 follows
(c) Only conclusion 1 and 3 follows
(d) Only conclusion 4 follows

Q73. Select the missing term based on the given related pair.

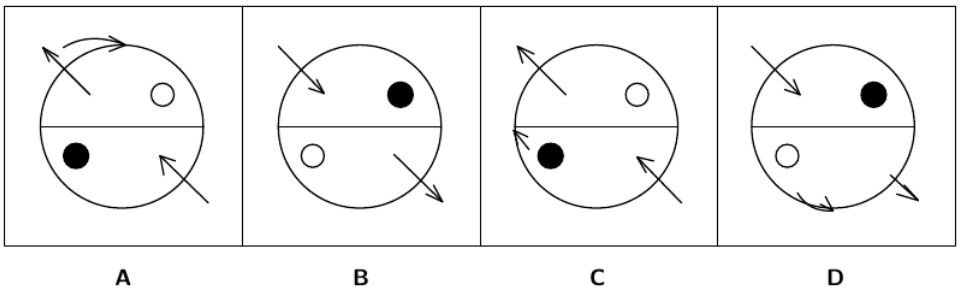


(a) Aunty
(b) Woman
(c) Girl
(d) Uncle

Q74. The ratio of the number of marbles that Pulak and Menaja had was 5 : 9 while the ratio of the number of marbles that Jairam and Menaja had was 7 : 18. What is the ratio of the number of marbles that Pulak and Jairam had?

(a) 5 : 7
(b) 7 : 5
(c) 2 : 3
(d) 10 : 7

Q75. Select the figure which does NOT belong to the group:



(a) A

(b) D
(c) C
(d) B

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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