RRB ALP CBT I 17 Aug 2018 Shift 2 Official Paper (Previous Year Paper)

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

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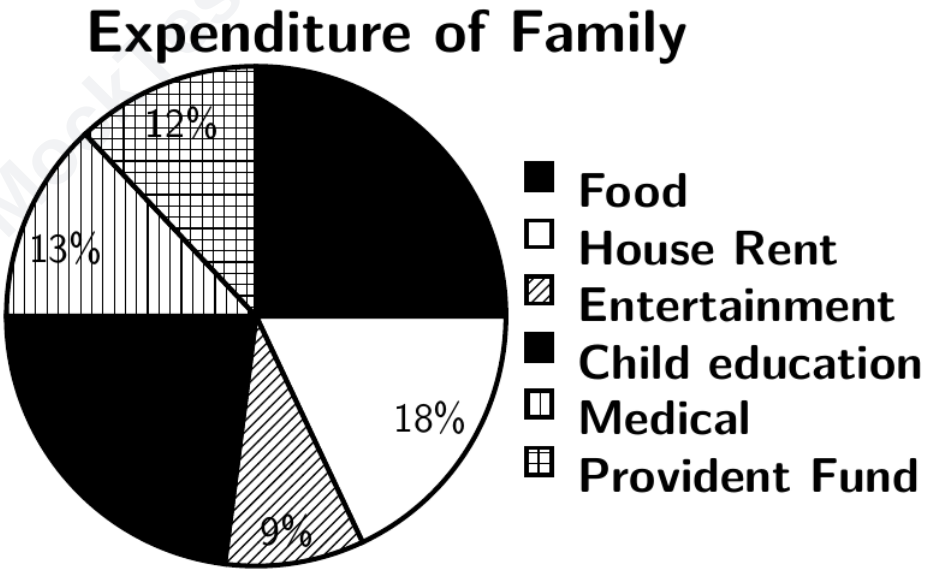
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STAGE I (CBT I)

Q1. The chart represents the domestic expenditure of a family per month. If the family income is Rs. 33,650 then the total money spent by the family on entertainment and food together per month is:



(a) Rs. 11,144
(b) Rs. 11,442
(c) Rs. 11,414
(d) Rs. 11,441

Q2. CuO + H2→ Cu + H2O. This equation is an example of:

(a) Oxidation
(b) Decomposition
(c) Redox
(d) Reduction

Q3. What is the basic unit of classification in taxonomy?

(a) Order
(b) Genus
(c) Family
(d) Species

Q4. Name the vitamin whose deficiency causes excessive bleeding?

(a) Vitamin B
(b) Vitamin A
(c) Vitamin C
(d) Vitamin K

Q5. An object is placed on the principal axis of a convex lens of focal length 10 cm. If the distance of the object from the lens is 30 cm, what is the distance of the image formed?

(a) 20 cm
(b) 15 cm
(c) 10 cm
(d) 30 cm

Q6. Consider the given question and decide which of the following statements is sufficient to answer the question.

A, B, C, D and F are sitting at a round table facing center; who is sitting next to B?

Statements:

1. D is sitting between A and F.
2. C is sitting between B and F.

(a) Both 1 and 2 are sufficient to answer the given question.
(b) Neither 1 or 2 is sufficient to answer the given question.
(c) 1 alone is sufficient while 2 alone is not sufficient to answer the given question.
(d) 2 alone is sufficient while 1 alone is not sufficient to answer the given question.

Q7. Lime water turns milky when carbon dioxide is passed through it. It is due to the formation of:

(a) Barium Carbonate
(b) Calcium Oxide
(c) Calcium Carbonate
(d) Calcium Hydrogen Carbonate

Q8. As of February 2018, which Indian paediatrician has been appointed as the Deputy Director General (Programmes) in the World Health Organisation (WHO)?

(a) Dr. Indira Hinduja
(b) Dr. SI Padmavati
(c) Dr. Kamini Rao
(d) Dr. Soumya Swaminathan

Q9. Consider the given statement to be true and decide which of the given conclusion(s) logically follow(s) from the statement.

Statement:

Some bugs are birds. All the birds are fruits.

Conclusions:

1. All the fruits are birds.
2. Some of the bugs are fruits.

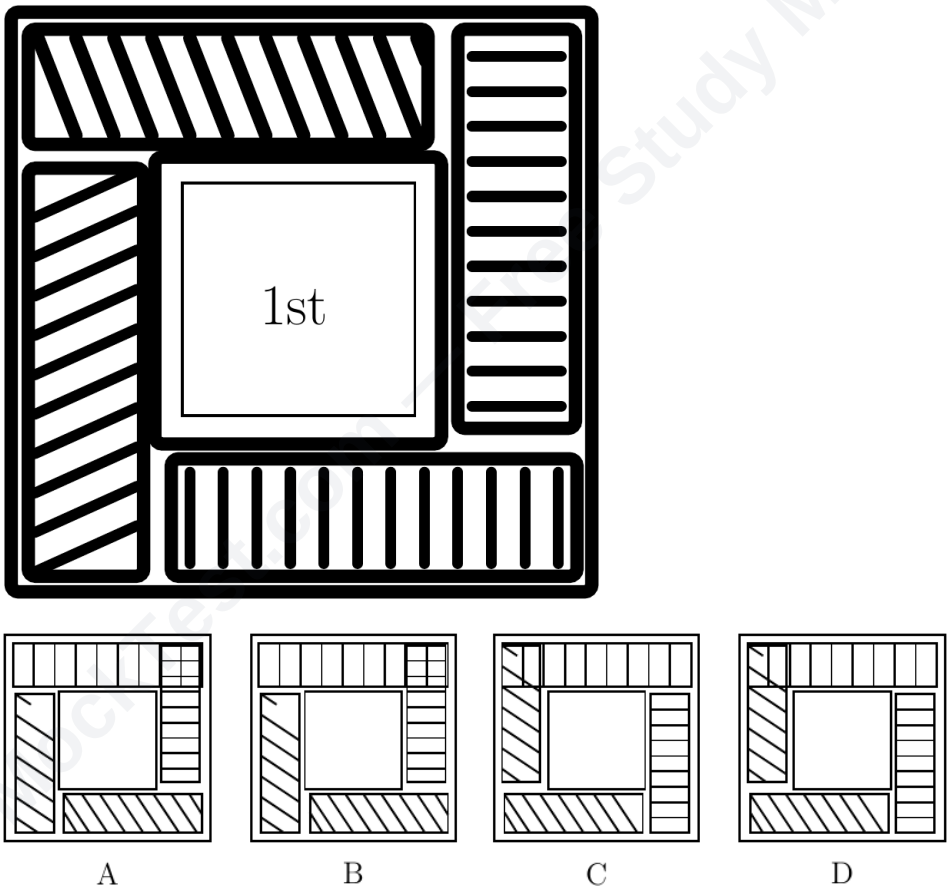
(a) Only conclusion 2 follows.
(b) Both conclusions 1 and 2 follow.
(c) Neither conclusion 1 nor 2 follows.
(d) Only conclusion 1 follows.

Q10. A person driving at the speed of 40 km/hr reaches office 1 minute early while he reaches 3 minutes late if driving at 36 km/hr. What is the distance (in km) that she is covering?

(a) 32
(b) 28
(c) 24
(d) 30

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Q11. From the given four answer figures choose the correct water image of the problem figure.



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

Q12. The volume of 10 g of gas X is 5.6 litre at NTP. What is the molecular weight of X?

(a) 20
(b) 40
(c) 50
(d) 60

Q13. If A, B and C are denoting Mean, Median and Mode of a data and A : B = 9 : 8 then the ratio of B : C is:

(a) 5 : 4
(b) 8 : 9
(c) 7 : 6
(d) 4 : 3

Q14. Iron which resembles Cobalt and Nickel in properties has been placed far away from these elements. This was one of the limitations of:

(a) Mendeleev's periodic table
(b) Dobereiner's triads
(c) Modern periodic table
(d) Newlands' law of octaves

Q15. If the number x3331 is divisible by 11, what is the face value of x?

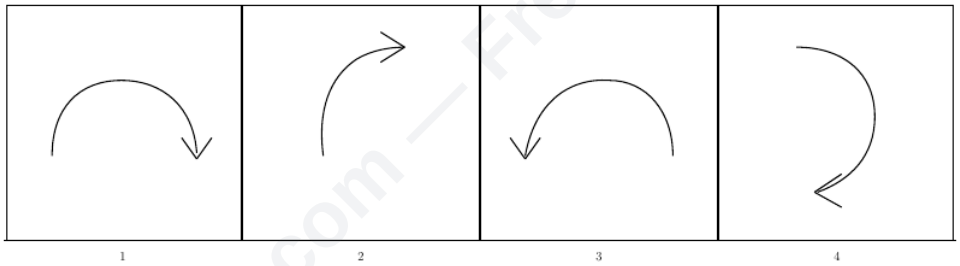
(a) 5
(b) 4
(c) 2

(d) 3

Q16. Which team created history by winning the Ranji Trophy for the first time in January 2018?

(a) Vidarbha
(b) Odisha
(c) West Bengal
(d) Kerala

Q17. Select the odd figure out of the following series.



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

Q18. Before Champaran Satyagraha, the farmers of Champaran used to follow the 'Tinkathiya' system, whereby three katthas of land in a bigha had to be planted with _____.

(a) sugarcane
(b) indigo
(c) cotton
(d) Jute

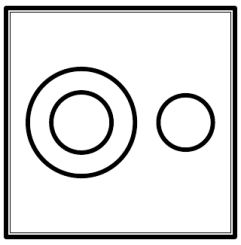
Q19. Consider a hypothetical planet with a mass equal to half that of Earth and radius is onethird that of Earth. If g is the acceleration due to gravity on Earth, the acceleration due to gravity on the planet will be:

(a) (5/2) g
(b) (9/2) g
(c) (1/2) g
(d) (3/2) g

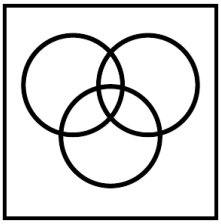
Q20. Which of the following Venn diagrams correctly represents the following classes:

Lion, Tiger, Animals

(a)

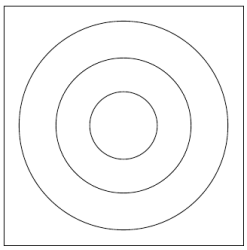


(b)

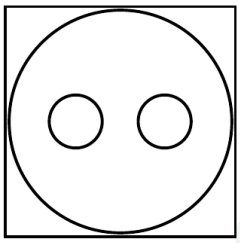


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(c)



(d)



Q21. Consider the given statement and decide which of the given assumptions is (are) implicit.

Statement:

'Triple your money in one year' — an advertisement.

Assumptions:

I. The assurance is not genuine.

II. People want their money multiplied.

(a) Only assumption I is implicit.

(b) Neither assumption I nor II is implicit.

(c) Only assumption II is implicit.

(d) Both assumptions I and II are implicit.

Q22. Consider the given statements to be true and decide which of the conclusions logically follow(s) from the statements.

Statements

Sachin is a good batsman. Batsmen are intelligent.

Conclusions

1. All intelligent people are batsman.

2. Sachin is intelligent.

(a) Both 1 and 2 follow.

(b) Neither 1 nor 2 follows.

(c) Only conclusion 1 follows.

(d) Only conclusion 2 follows.

Q23. In the following series, one letter is missing as shown by the question mark (?). Select the missing letter from the given options.

Q, N, K, H, ?

(a) C

(b) E

(c) A

(d) F

Q24. Atomic mass of Nitrogen is 14 and that of Hydrogen is 1. What will be the molecular mass of Ammonia?

(a) 17

(b) 18

(c) 15

(d) 16

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Q25. Solve the following:

24 ÷ (19 - 9 ÷ 3 × 9) = ?

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

Q26. Solve the following:

123 + 12.3 + 1.23 + 0.123 + 0.0123 = ?

(a) 136.653
(b) 136.7760
(c) 136.7659
(d) 136.6653

Q27. At 5% simple interest per annum a certain sum yields a total amount of Rs. 2,790 at the end of 3 1/4 years. The sum invested was:

(a) Rs. 2,400
(b) Rs. 2,350
(c) Rs. 2,600
(d) Rs. 2,550

Q28. If L stands for +, M stands for -, N stands for × and P stands for ÷, then

8 N 9 L 60 P 3 M 13 = ?

(a) 79
(b) 103
(c) 95
(d) 89

Q29. As of February 2018, which famous Bollywood actor has been named as the brand ambassador of 'Resurgent Rajasthan', a state government campaign?

(a) Amitabh Bachchan
(b) Anupam Kher
(c) Rahul Singh
(d) Irrfan Khan

Q30. Some one rupee, 50 paisa and 25 paisa coins make up rupees 93.75 and their numbers are in the proportion of 3 : 4 : 5. Find the number of each type of coins?

(a) 45, 60, 75
(b) 46, 58, 75
(c) 40, 70, 75
(d) 42, 56, 70

Q31. 'Alone' is related to 'Unaccompanied' in the same way as 'Amount' is related to _____.

(a) Solitary
(b) Secluded
(c) Quake
(d) Quantity

Q32. If the angle of incidence formed on a concave mirror at a point is 30° then the angle of reflection will be:

(a) 15°
(b) 30°
(c) 90°
(d) 60°

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Q33. Who has recently taken charge as the new CEO of Indian e-commerce giant Flipkart?

(a) RC Bhargava
(b) AL Rajwani
(c) Sunil Duggal
(d) Kalyan Krishnamurthy

Q34. As of February 2018, who owns the Delhi-based IPL team 'Delhi Daredevils'?

(a) Virender Sehwag
(b) Shah Rukh Khan
(c) Shilpa Shetty
(d) GMR Group

Q35. Consider the given question and decide which of the following statements is sufficient to answer the question.

When did Mr. Y purchase his car?

Statements:

1. Certainly before 18^(th) August but not before 15^(th) August.
2. Certainly after 16^(th) August but not later than 19^(th) August.

(a) Both statement 1 and 2 are sufficient
(b) Either statement 1 or 2 is sufficient
(c) Statement 2 alone is sufficient while statement 1 alone is insufficient
(d) Statement 1 alone is sufficient while statement 2 alone is insufficient

Q36. One of the two inlet pipes works twice as efficiently as the other. The two, working alongside a drain pipe that can empty a cistern all by itself in 8 hours, can fill the empty cistern in 8 hours. How many hours will the less efficient inlet pipe take to fill the empty cistern by itself?

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

Q37. If the given series is written in the reverse order, then what will be the 5th term to the left of the 10th term from right end?

R+JM2$#QR?*O@7F3

(a) O
(b) +
(c) 7
(d) F

Q38. Find the length of a transverse common tangent of the two circles whose radii are 3.5 cm, 4.5 cm and the distance between their centres is 10 cm.

(a) 8 cm
(b) 3.6 cm
(c) 6.4 cm
(d) 6 cm

Q39. Which of the following is NOT a renewable source of energy?

(a) Solar energy
(b) Geothermal energy
(c) Energy from fossils
(d) Wind energy

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Q40. The interest on Rs. 1250 for 6 years at the rate of 4% simple interest per annum will be:

(a) Rs. 350
(b) Rs. 300
(c) Rs. 360
(d) Rs. 375

Q41. If we take a small amount of washing soda and add approximately 1 mL of dilute hydrochloric acid to it, what will we observe?

(a) White-coloured precipitate is formed.
(b) CO_2 gas comes out with brisk effervescence.
(c) H_2 gas comes out with pop sound.
(d) Only neutralisation reaction occurs, no gas is released.

Q42. Which of the options depicts the correct mirror image of the following figure.

WESTERN

(a)



(b)



(c)



(d)



Q43. If the equations $4x + 3y + 5 = 0$ and $6x - ky - 7 = 0$ have no solution, then the value of k is:

(a) -8
(b) 8
(c) -4.5
(d) 4.5

Q44. P is S's mother's only son's wife. How is P related to S?

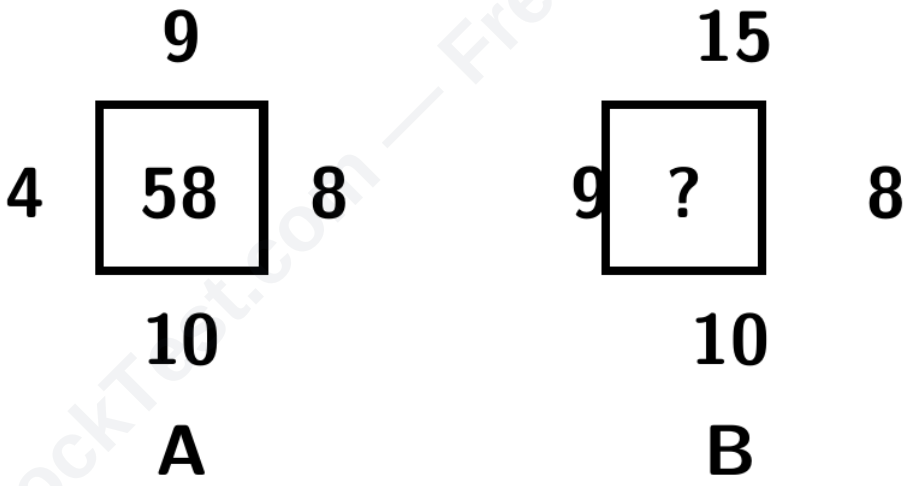
(a) Mother-in-law
(b) Sister-in-law
(c) Sister
(d) Daughter-in-law

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Q45. Non-metallic character increases from _____.

(a) Magnesium to Barium
(b) Sodium to Chlorine
(c) Potassium to Caesium
(d) Oxygen to Selenium

Q46. Assuming that the numbers in each of the following figures follow a similar pattern, select the option that can replace the question mark (?) in figure B.



(a) 63
(b) 100
(c) 117
(d) 78

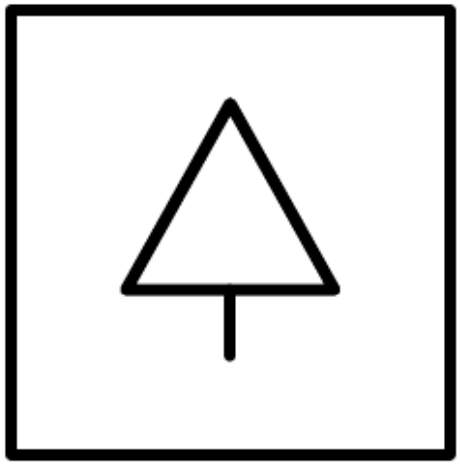
Q47. Fill in the blank with the most appropriate option.

The Universal Constant of Gravitation is _____.

(a) 9.8 Nm^2/kg^2
(b) 6.76 × 10^(-10) Nm^2/kg^2
(c) 6.67 × 10^(-11) Nm^2/kg^2
(d) 6.67 × 10^(10) Nm^2/kg^2

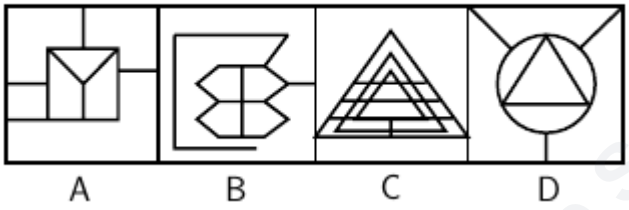
Q48. The problem figure is embedded in one of the four answer figures. Choose the correct figure containing the following figure.(Rotation is not allowed)

Problem Figure



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Answer Figures



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

Q49. 15% of an alloy was silver. If in a quantity of alloy there was 51 g of silver, what was the quantity of the other elements in the alloy?

(a) 289 g
(b) 204 g
(c) 300 g
(d) 340 g

Q50. Aizaz was born on 5th January 2015, while Faiz was born 553 days later. On which date was Faiz born?

(a) 12th July 2016
(b) 11th July 2016
(c) 9th July 2016
(d) 10th July 2016

Q51. A train travelling at 76 km/h crosses a 450 m long platform in 27 seconds. What is the length of the train?

(a) 130 m
(b) 110 m
(c) 100 m
(d) 120 m

Q52. Select the related word from the given alternatives:

If FROG : 9268, RANG : 2538, then FORT is coded as _____.

(a) 9327
(b) 9762
(c) 9672
(d) 9627

Q53. Which of the following animal reproduce both, sexually as well as asexually?

(a) Algae
(b) Fungi
(c) Hydra
(d) Amoeba

Q54. What is the SI unit of weight?

(a) Gram
(b) Kg
(c) Newton
(d) Dyne

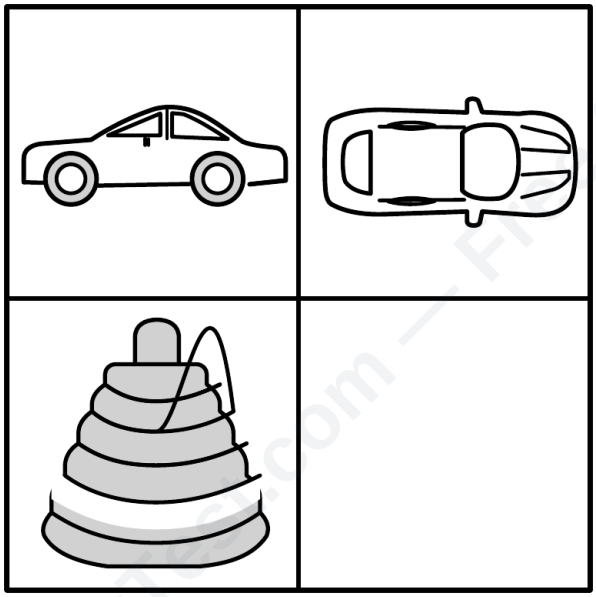
Q55. _____is not an allotrope of carbon.

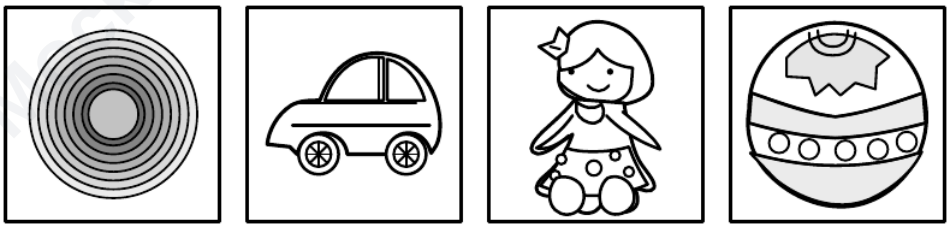
(a) Buckminsterfullerene
(b) Diamond
(c) Graphite

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(d) Carbon Dioxide

Q56. Fill in the missing space with the correct figure.





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

Q57. Select the correct option to complete the following letter series.

EHI, FJK, GLM, HNO, _____.

(a) IMN
(b) IPQ
(c) IQP
(d) IRS

Q58. Who is the first female and the first ever Asian to become the Chief Human Resources Officer of the Global Giant Unilever? She is incidentally an Indian.

(a) Padmasree Warrior
(b) Alka Banerjee
(c) Indra Nooyi
(d) Leena Nair

Q59. The absolute refractive index of air is:

(a) 1.03
(b) 1.00003
(c) 1.003
(d) 1.0003

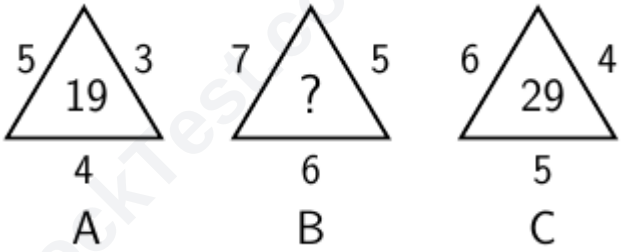
Q60. Ram Nath Kovind, the Indian President as of February 2018, hails from which state?

(a) Gujarat
(b) Punjab
(c) Rajasthan
(d) Uttar Pradesh

Q61. Two pipes fill a tank when working individually in 25 and 40 hours, respectively while a third pipe can drain the filled tank in 16 hours. If all the three pipes are turned on at the same time when the tank is empty, how long will it take to fill the tank completely?

(a) 15 days 18 hours
(b) 2 days 1 hour
(c) 16 days 16 hours
(d) 1 day 7 hours

Q62. Based on figures A and C, select the option that can replace the question mark (?) in figure B.



(a) 37
(b) 41
(c) 47
(d) 40

Q63. Kinetic energy is equal to:

(a) Ma
(b) 1/2 m v^2
(c) mv
(d) mgh

Q64. Which Kannada writer received the Sahitya Academy Award for his novel 'Swatantryada Ota'?

(a) Bolwar Mahammad Kunhi
(b) Girish Karnad
(c) C.N. Ramachandran
(d) Vaidehi

Q65. Fill in the blank with the most appropriate option.

If the genotype of a plant is ttRr, the phenotype would be _____.

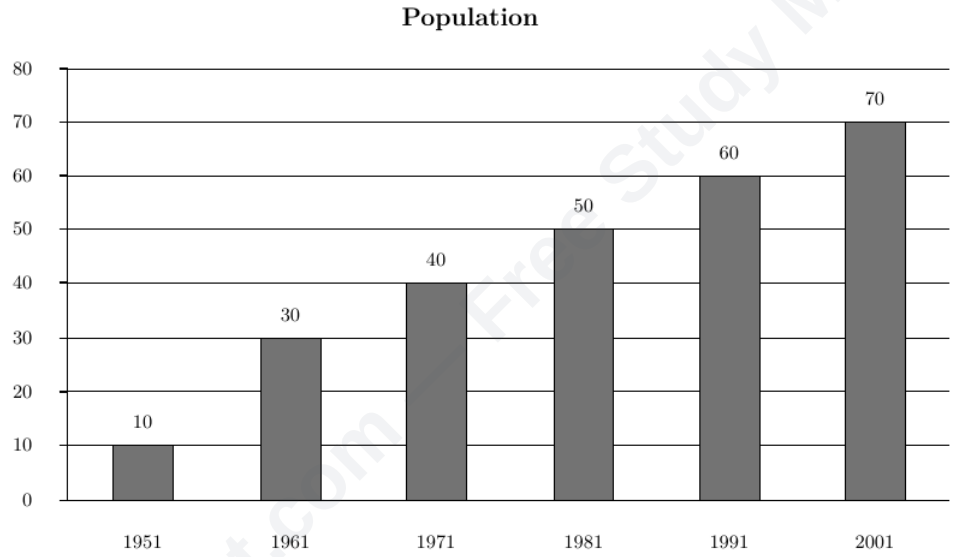
(a) Dwarf and Round
(b) Tall and Wrinkled
(c) Dwarf and Wrinkled
(d) Tall and Round

Q66. Square root of 0.9 is equal to

(a) 0.9487
(b) 0.3
(c) 0.9463
(d) 0.03

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Q67. The percentage increase in the population is highest as compared to that of the previous year in the year:



Population

(a) 1961
(b) 1981
(c) 2001
(d) 1971

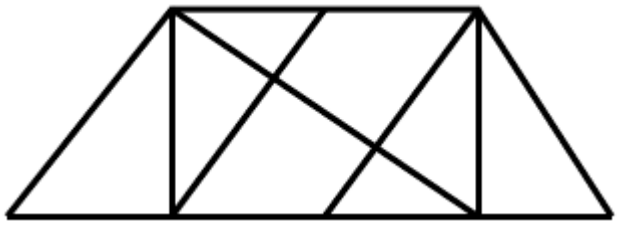
Q68. Find the length of one side of a rhombus whose area is 24 cm^2 and the sum of the lengths of its diagonals is 14 cm.

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

Q69. The number of diagonals in a pentadecagon is:

(a) 60
(b) 90
(c) 30
(d) 45

Q70. Select the option that represents the number of parallelograms in the given figure.



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

Q71. The LCM of 56, 84 and 112 is:

(a) 210
(b) 336
(c) 168
(d) 420

Q72. Consider the argument and decide which of the given assumptions is/are implicit.

Argument:

A top university has reduced the syllabus of Mathematics in Class 12.

Assumptions:

1. Students can score more marks than before in Mathematics.
2. This has been done to reduce the stress and burden of the students in Mathematics.

(a) Both 1 and 2 are implicit
(b) Neither 1 and 2 is implicit
(c) Only assumption 1 is implicit
(d) Only assumption 2 is implicit

Q73. Which of the following numbers is divisible by 9?

(a) 12321
(b) 45654
(c) 45678
(d) 12345

Q74. Consider the given statements true and decide which of the given conclusions can definitely be drawn from the given statements.

Statements:

All apples are red. No red fruits are cheap.

Conclusions:

1. All apples are cheap.
2. Red apples are not cheap.

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

Q75. The tallest peak of which of the following mountain ranges is a mountain called 'Guru Shikhar'?

(a) Vindhya Range
(b) Western Ghats Range
(c) Satpura Range
(d) Aravalli Range

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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