RRB ALP CBT I 14 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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Practise under exam conditions, then review your answers after you submit.

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STAGE I (CBT I)

Q1. The HCF of 36, 54 and 108 is:

(a) 9
(b) 12
(c) 6
(d) 18

Q2. Tapan, Ravi, and Trisha shared a cake. Tapan had 1/4 of it, Trisha had 2/3 of it and Ravi had the rest. What was Ravi's share of the cake?

(a) 1/12
(b) 4/7
(c) 2/6
(d) 1/6

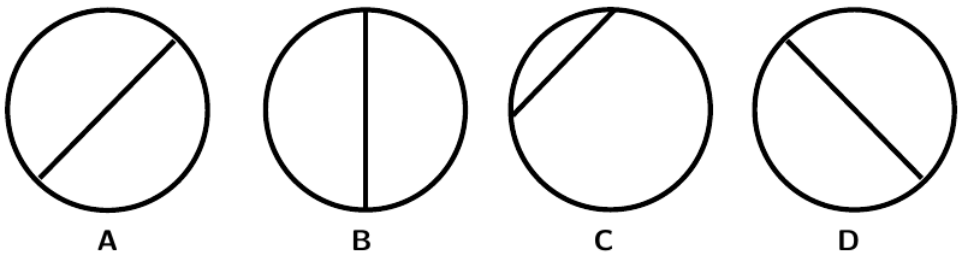
Q3. What is the mean of first hundred natural numbers?

(a) 51.5
(b) 51
(c) 50.5
(d) 50

Q4. A natural number, when divided by 4, 5, 6, or 7, leaves a remainder of 3 in each case. What is the smallest of all such numbers?

(a) 843
(b) 213
(c) 423
(d) 63

Q5. Select the figure which does NOT belong to the group.



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

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Q6. If a young son works quickly for 2 hours and prepares 16 items in a day, and his old father works slowly for 8 hours and prepares 24 items a day, which of the following is true.

(a) The son has more energy
(b) The son has more power
(c) Both have equal energy
(d) Both have same power

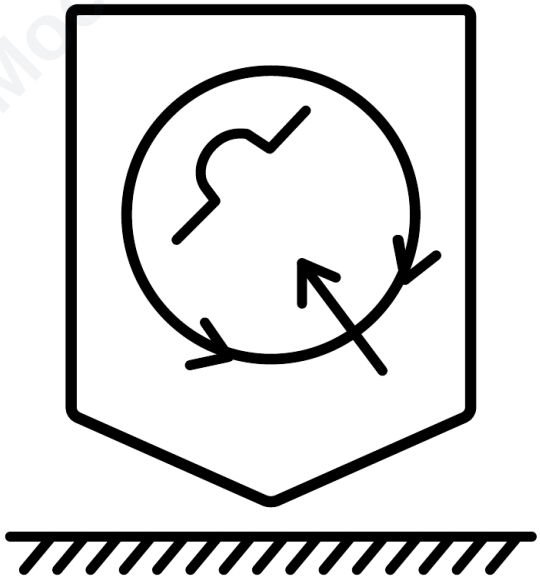
Q7. In a hydrogen atom, an electron moves in an orbit of radius 5.0 × 10^(-11) m with a speed of 2.2 × 10^6 m/s. What is the equivalent current?

(a) 0.112 mA
(b) 112 mA
(c) 1.12 mA
(d) 11.2 mA

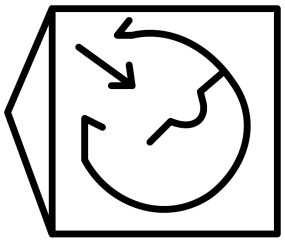
Q8. The square root of which of the following numbers is irrational?

(a) 6560
(b) 3969
(c) 1764
(d) 5625

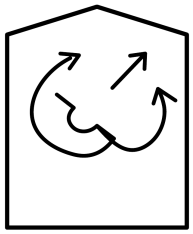
Q9. Select the correct mirror image of the given figure if the mirror is placed horizontally as shown.



(a)



(b)

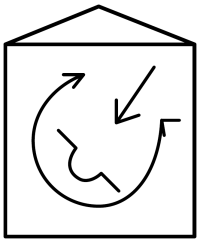


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(c)



(d)



Q10. Name the stage of mitosis during which the chromosomes of a dividing cell lies at the equatorial plate?

(a) Metaphase
(b) Prophase
(c) Anaphase
(d) Telophase

Q11. Select the number missing from the given series.

3, 12, _____, 21612

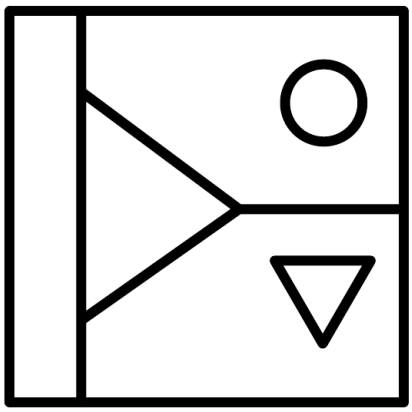
(a) 150
(b) 200
(c) 149
(d) 147

Q12. Form the top of a platform, the angle of elevation of a tower was 30°. The tower was 45 m high and the horizontal distance between the platform and the tower was 40√3 m. What is the height of the platform?

(a) 45√3 m
(b) 5 m
(c) 40 m
(d) 20√3 m

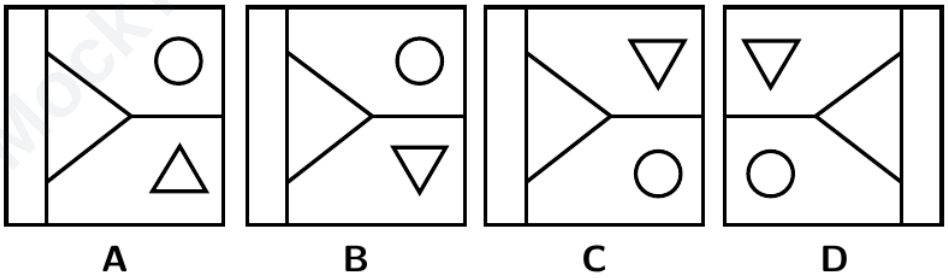
Q13. Choose the correct water image of the given figure:

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Problem Figure

Answer Figures



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

Q14. Which of the following processes will take place the slowest for the same quantity of liquid?

(a) Boiling
(b) Freezing
(c) Condensation
(d) Evaporation

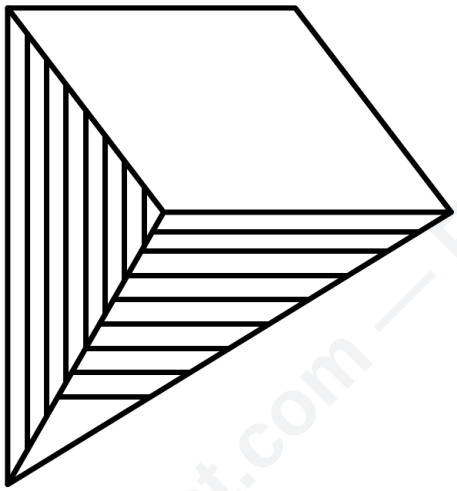
Q15. Who is the first Indian player to score a century in his debut One day International Cricket match? The said player achieved this feat in 2016.

(a) Jayant Yadav
(b) Karun Nair
(c) K.L. Rahul
(d) Hardik Pandya

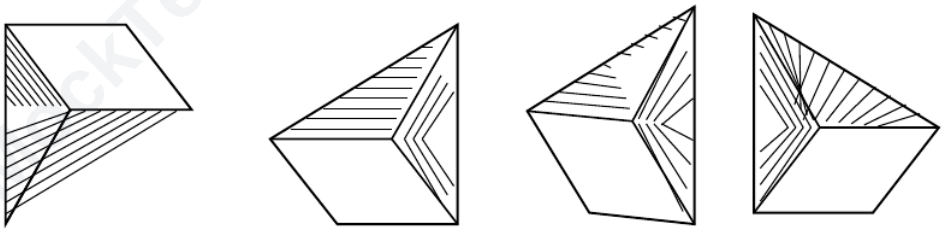
Q16. Select the Answer Figure that is the correct water image of the given Problem Figure.

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Problem Figure



Answer Figures



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

Q17. Which of the following elements replaced eka-Aluminium in Mendeleev's Periodic Table?

(a) Scandium
(b) Germanium
(c) Gallium
(d) Titanium

Q18. A computer always has a:

(a) Keyboard
(b) CPU
(c) Graphics Card
(d) Mouse

Q19. Which of the following physical quantity measures the rate of work done?

(a) Force
(b) Energy
(c) Power
(d) Momentum

Q20. These regional teams namely Dabang Mumbai, Kalinga Lancers, Ranchi Rays and Delhi Waveriders play for which sports league?

(a) Pro Kabaddi League
(b) United Basketball Alliance
(c) Indian Premier League

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(d) Hockey India League

Q21. Hydra reproduces by _____.

(a) Multiple fission
(b) Binary fission
(c) Fragmentation
(d) Budding

Q22. Facing North, Aishwarya turns 45° clockwise, then 135° anticlockwise and then 180° clockwise. Which direction is she is facing now?

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

Q23. DWT : GZW ? QPM : _____

(a) TSP
(b) PST
(c) STP
(d) TPS

Q24. Consider the argument and decide which of the given assumption is/are implicit.

Argument:

The highway authority had announced that it will be undertaking a major road repair work for three days beginning Friday between Bangalore and Tumkur.

Assumption:

1. People need to plan accordingly for their trip between Bangalore and Tumkur.
2. The authority is troubling citizens with unnecessary repair work.

(a) Neither 1 nor 2 is implicit
(b) Only assumption 2 is implicit
(c) Both 1 and 2 are implicit
(d) Only assumption 1 is implicit

Q25. Which of the following devices converts Chemical energy into Electrical energy?

(a) Electric cell
(b) Electric fan
(c) Hair dryer
(d) Electric heater

Q26. The percentage of carbon in CO_2 is:

(a) 44
(b) 27.3
(c) 14
(d) 12

Q27. X's rank was 12 from the top. If the total number of students in the class was 16, then X's rank from the bottom for the class is:

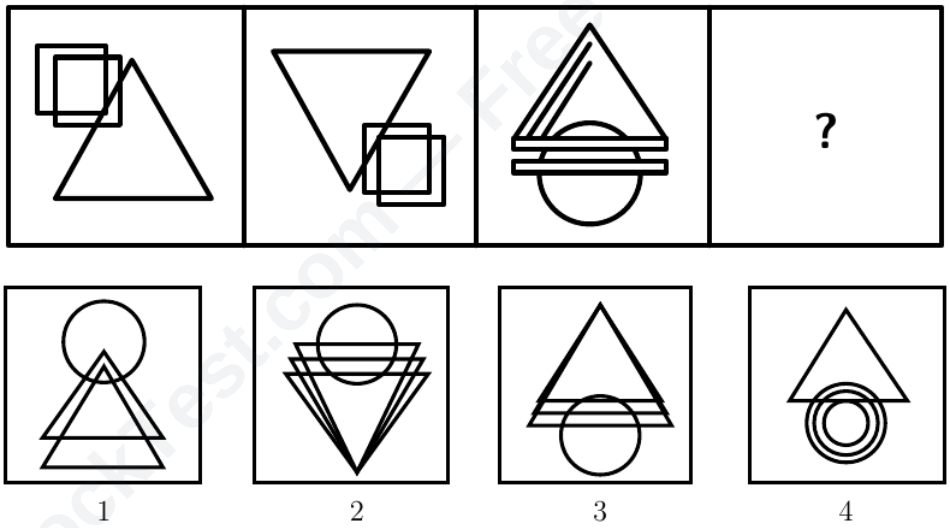
(a) 6
(b) 5
(c) 4
(d) 7

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Q28. In the modern periodic table, which of the two periods contain 8 elements each?

(a) 2 and 3
(b) 1 and 2
(c) 4 and 5
(d) 3 and 4

Q29. Choose the correct figure from the answer that replaces the question mark.



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

Q30. If a solution turns blue litmus red, its pH is likely to be:

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

Q31. Select the related letters from the given alternatives:

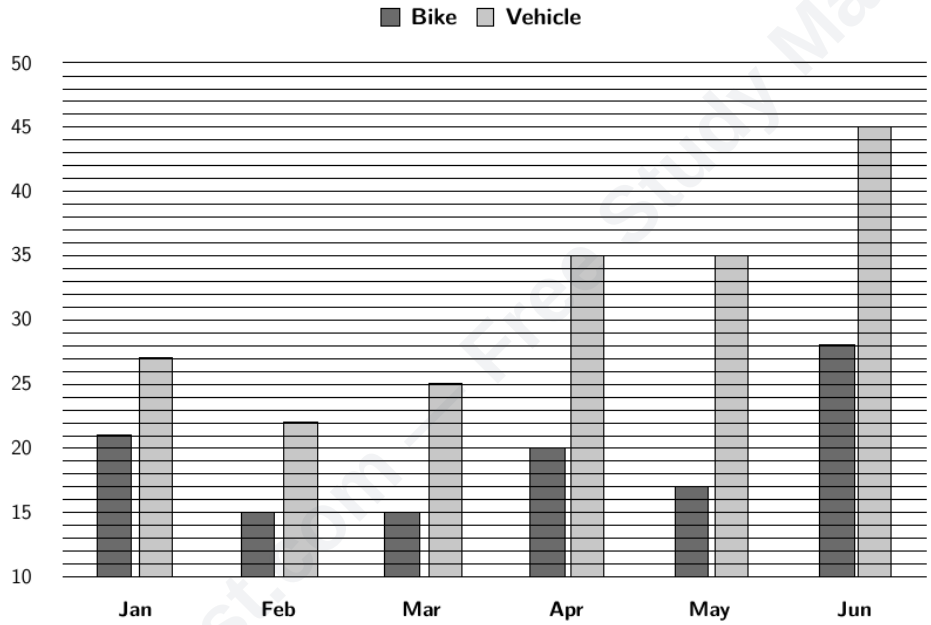
PUNE : SXQF ? CITY : _____

(a) EKVZ
(b) FLXZ
(c) FLWZ
(d) GMVZ

Directions

Direction: The given Bar graph shows the registration of bikes and total vehicles (in thousands) for 6 months in 2017 in City X. Study the graph carefully and answer the following question.

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Note: In the chart, the first number represents bikes and the second number represents total vehicles.

Q32. Based on the given data, in March 2017, the number of vehicles other than bikes registered is:

(a) 9000
(b) 11000
(c) 10000
(d) 15000

Q33. The ratio of sand to gravel in a mixture is 7 : 8 while that between gravel and cement is 6 : 7. What is the ratio of sand to cement in the mixture?

(a) 7 : 7
(b) 8 : 6
(c) 3 : 4
(d) 49 : 48

Q34. _____ is known as India's Spice Garden.

(a) Maharashtra
(b) Rajasthan
(c) Karanataka
(d) Kerala

Q35. Ram's father is twice as old as Ram is. Eight years ago, the age of Ram's father was 2.5 times his age. What is Ram's current age?

(a) 25 years
(b) 23 years
(c) 24 years
(d) 22 years

Q36. An object weighing 20 kg is raised through a height of 2 m. What will be the work done by the force of gravity in this process? (g = 10 m\s²)

(a) 40 J
(b) 100 J
(c) 400 J
(d) 50 J

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Q37. Non-metal oxides are usually:

(a) Acidic
(b) Basic
(c) Amphoteric
(d) Neutral

Q38. As per Economic survey 2017-18, the percentage contribution of the Services Sector to India's GDP will be in the range of:

(a) Between 30-40%
(b) Between 40-50%
(c) Greater than 50%
(d) Less than 30%

Q39. Rahi deposited Rs. 600 in a bank that promised 8% simple interest per annum. If Rahi kept the money with the bank for 5 years, she will earn an interest of:

(a) Rs. 480
(b) Rs. 240
(c) Rs. 200
(d) Rs. 280

Q40. Which assembly constituency within Chennai city was forced to have a recent by-election because of the death of the Chief Minister Jayalalithaa?

(a) Royapuram
(b) RK Nagar
(c) Saidapet
(d) Thousand Lights

Q41. Implantation is the process of _____.

(a) Attachment of zygote to the lining of a uterus
(b) The development of a child inside the mother's body
(c) Nutrition from mother's blood through the placenta
(d) Developing an embryo and its nourishment

Q42. The square of 11111 is:

(a) 123454321
(b) 1234321
(c) 1223311
(d) 321231

Q43. Which Indian actor-turned-politician won the 2017 Filmfare Lifetime Achievement Award?

(a) Dharmendra
(b) Shatrughan Sinha
(c) Vinod Khanna
(d) Amitabh Bachchan

Q44. Which of the following is Pythagorean triplet?

(a) 2, 3, 7
(b) 7, 9, 11
(c) 8, 15, 17
(d) 17, 21, 29

Q45. Consider the given statements to be true and decide which of the given conclusions can definitely be drawn from the statements.

Statements:

All sharks are fish. No fish is a snake.

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Conclusions:

1. No snake is a shark.

2. No shark is a snake.

(a) Only conclusion 2 follows.

(b) Neither 1 nor 2 follows.

(c) Only conclusion 1 follows.

(d) Both the conclusions 1 and 2 follow.

Q46. A, B, and C can complete a task together in 10 days. A and B would need 12 days, while B and C would take 20 days. If B worked alone, how many days would he take to complete the task?

(a) 22

(b) 45

(c) 30

(d) 20

Q47. A/an _____ flame is produced when the oxygen supply is sufficient.

(a) Orange

(b) Red

(c) Green

(d) Blue

Q48. Select the missing term based on the given related pair of words.

_____ : Hand ? Sole : Foot

(a) Finger

(b) Palm

(c) Wrist

(d) Nail

Q49. The _____ founded the first city of Delhi and named it Indraprastha.

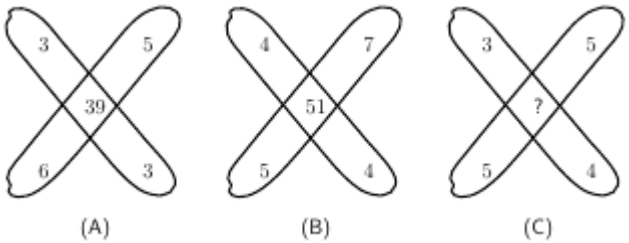
(a) Pandavas

(b) Portuguese

(c) Kauravas

(d) Mughals

Q50. 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 C.



(a) 45

(b) 37

(c) 35

(d) 47

Q51. ABC$+#DEF&=?GHI!2*@

From the above sequence find the missing term.

ADG : +=2 ? CEI : _____

(a) D@?

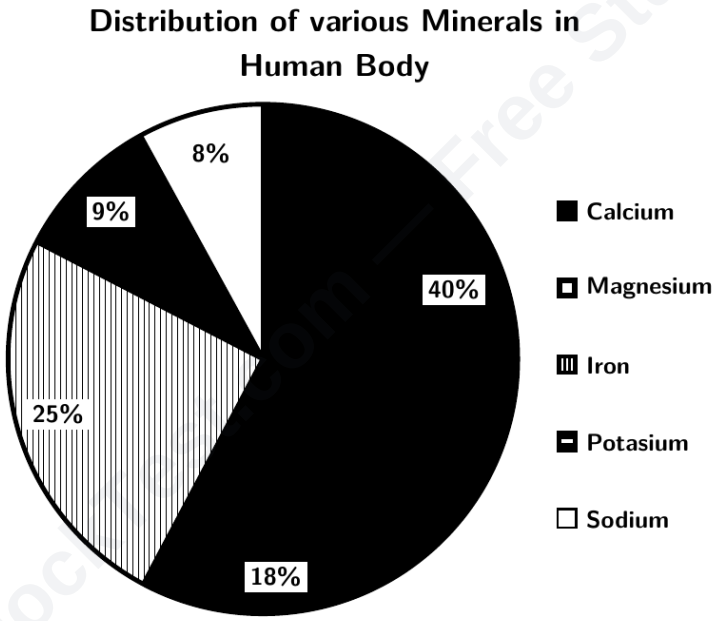
(b) D?@

(c) E@?

(d) E?@

Directions

Direction: The given pie chart shows the distribution of minerals in the human body. Study the chart carefully and answer the following question.



Q52. Based on the given data, what is the ratio of the metal with the second highest percentage of distribution to that with the second lowest percentage of distribution in the human body?

(a) 4 : 1
(b) 3 : 1
(c) 1 : 2
(d) 25 : 9

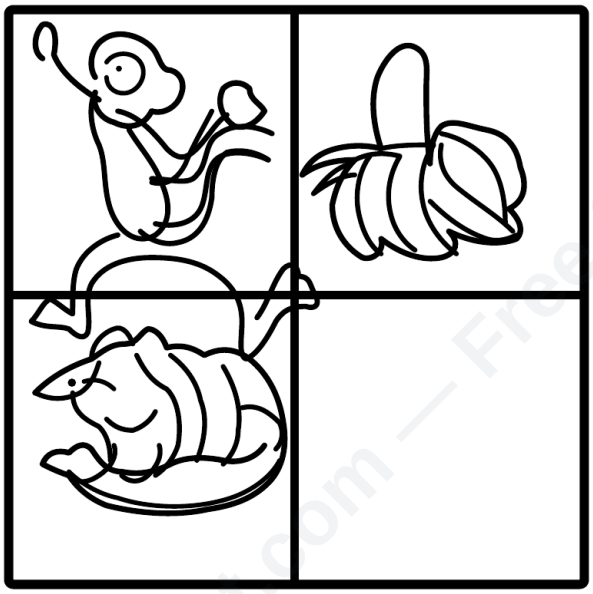
Q53. Arjun and Anurag complete a job in 6 days and 7 days respectively. They worked together and earned a total of Rs. 780. Find Arjun's share in this amount (in Rs.).

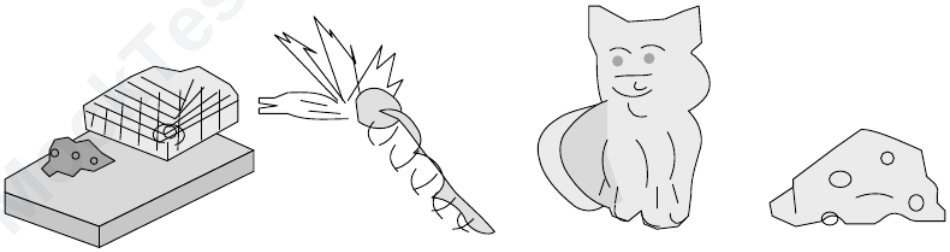
(a) 490
(b) 420
(c) 560
(d) 350

Q54. The average marks obtained by Raghav in 12 tests is 24. Zubeida has maintained an average of 23 so far but has taken only 9 of the tests. If each test is out of 30, at least how much must Zubeida score in any one of the remaining three tests to still have a chance to match Raghav's performance?

(a) 20
(b) 19
(c) 22
(d) 21

Q55. Fill in the missing space with the correct figure.





A B C D

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

Q56. Which celebrity is the author of the book ‘An Unsuitable Boy’?

(a) Khuswant Singh
(b) Shah Rukh Khan
(c) Shatrughan Sinha
(d) Karan Johar

Q57. The angle of depression of the foot of a building from the top of a tower 30 m away is 30°. How high is the tower?

(a) 20√3 m
(b) 30 m
(c) 20 m
(d) 10√3 m

Q58. As of 2018, who is the Chairman of the University Grants Commission (UGC)?

(a) Anil Sahasrabudhe
(b) D.P. Singh
(c) Najma Heptulla
(d) V.K. Saraswat

Q59. Which of the following changes when a body performs uniform circular motion?

(a) Speed
(b) Mass
(c) Direction
(d) Kinetic energy

Q60. Roshan's current age is three years less than 1.5 times Usha's age. 12 years ago, Usha's age was three years more than half of Roshan's age. What is Roshan's present age in years?

(a) 33
(b) 39
(c) 42
(d) 30

Q61. Qamar gained 16% on the resale of a used stereo. If he purchased the item for Rs. 1,500, how much did he sell it for?

(a) Rs. 1,740
(b) Rs. 1,820
(c) Rs. 1,660
(d) Rs. 1,600

Q62. Consider the argument and decide which of the given assumption is/are implicit.

Argument:

Akbar said to his queen, "Birbal is the wisest man in my kingdom."

Assumption:

1. Akbar is not as wise as Birbal.
2. Akbar wants Birbal to become the next king.

(a) Both 1 and 2 are implicit
(b) Only assumption 1 is implicit
(c) Neither 1 nor 2 is implicit
(d) Only assumption 2 is implicit

Q63. Which of the following animals has a comparatively longer intestine?

(a) Dog
(b) Tiger
(c) Fox
(d) Rabbit

Q64. Released in 2016, which of the following is the first Malayalam movie to cross the 100 crore revenue mark?

(a) Premam
(b) Pulimurugan
(c) Drishyam
(d) Oru Vadakkan Selfie

Q65. The unit of momentum is:

(a) $Kgms^2$
(b) Kgms^(-2)
(c) Kgms
(d) Kgms^(-1)

Q66. Consider the given question and decide which of the following statement is sufficient to answer the question.

What is the value of 14$20*8#4 ?

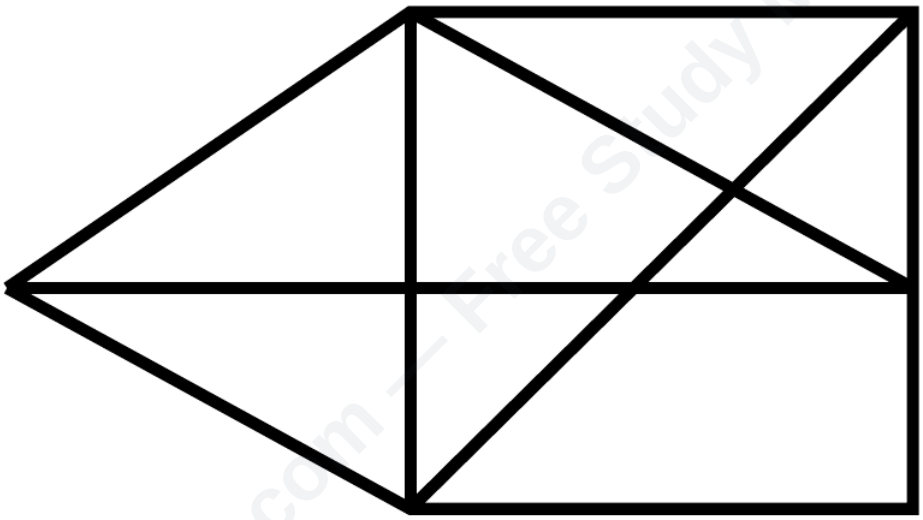
Statements:

1. $ implies -, * implies +, # implies ÷
2. 14$20*8 = 25

(a) Statement 2 alone is sufficient while statement 1 alone is insufficient
(b) Neither statement 1 or 2 is sufficient
(c) Statement 1 alone is sufficient while statement 2 alone is insufficient
(d) Both statement 1 and 2 are sufficient

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Q67. How many triangles are present in the following figure?



(a) 14
(b) 12
(c) 15
(d) 16

Q68. The area of the base of a cone is 64π cm^2 while its slant height is 17 cm. This cone is remoulded to obtain a solid sphere. Find the radius of this sphere.

(a) 8cbrt30 cm
(b) 2cbrt40 cm
(c) 2cbrt30 cm
(d) 6.5 cm

Q69. Solid Carbon dioxide is known as _____,

(a) Gas ice
(b) Wet ice
(c) Solid ice
(d) Dry ice

Q70. Pipes A and C can fill an empty cistern in 32 and 48 hours, respectively while pipe B can drain the filled cistern in 24 hours. If the three pipes are turned on together when the cistern is empty, how many hours will it take for the cistern to be 2/3 full?

(a) 96
(b) 48
(c) 72
(d) 64

Q71. At 8% simple interest per annum a sum of money becomes Rs. 300 in 21/2 years. What was the sum invested?

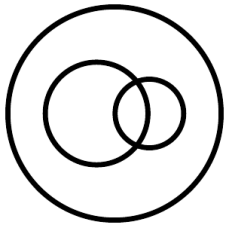
(a) Rs. 240
(b) Rs. 275
(c) Rs. 260
(d) Rs. 250

Q72. Which of the following Venn diagrams correctly represents the following classes:

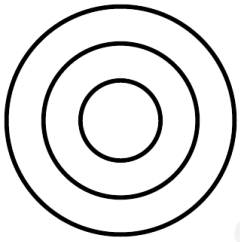
Men, Father, Doctor

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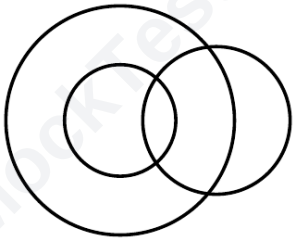
(a)



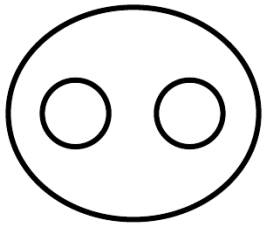
(b)



(c)



(d)



Q73. Consider the given statement to be true and decide which of the given conclusions can definitely be drawn from the statement.

Statement:

Many people living in villages relocate to cities for a better future.

Conclusions:

1. Government officers should have compulsory rural posting.
2. Increase more transport facilities between cities and villages.

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

Q74. Fill in the blank with the most appropriate option.

18 volts = _____ × 3 ohms.

(a) 6 watts
(b) 6 amperes
(c) 6 milliamperes
(d) 6 joules

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Q75. Select the term missing from the given series.

Y-25, W-23, U-21, S-19, ?

(a) Q-10
(b) S-8
(c) P-16
(d) Q-17

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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