RRB ALP CBT I 14 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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STAGE I (CBT I)

Q1. Solid Carbon dioxide is known as _____,

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

Q2. 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.”

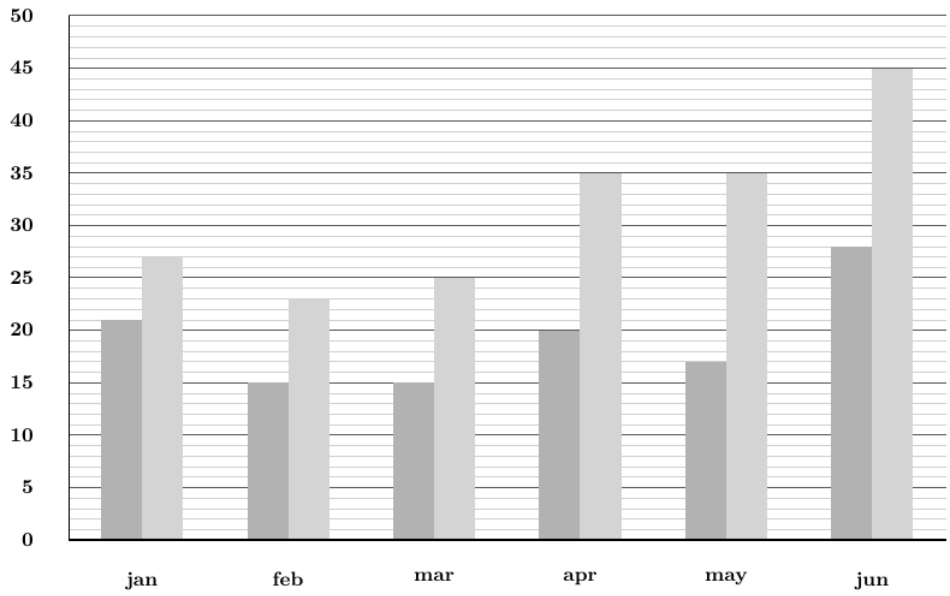
Assumption:

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

Directions

Direction: A Bar graph given below 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.



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

Q3. Based on the given data, in April 2017, the number of vehicles other than bikes registered is:

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

Q4. A/an _____ flame is produced when the oxygen supply is sufficient.

(a) Orange
(b) Red
(c) Green
(d) Blue

Q5. The ratio of sand to gravel in a mixture is 3 : 4, while that between gravel and cement is 6 : 7. What is the ratio of sand to cement in the mixture?

(a) 8 : 11
(b) 3 : 5
(c) 49 : 59
(d) 9 : 14

Q6. Which of the following devices converts Chemical energy into Electrical energy?

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

Q7. If a solution turns blue litmus red, its pH is likely to be:

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

Q8. 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

Q9. Select the related letters from the given alternatives:

PUNE : SXQF ? CITY : _____

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

Q10. The square of 11211 is:

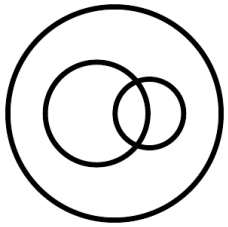
(a) 123432171
(b) 125686521
(c) 122331151
(d) 123454321

Q11. Which of the following Venn diagrams correctly represents the following classes:

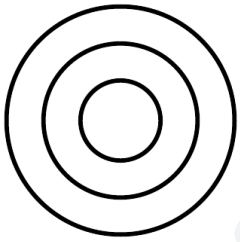
Men, Father, Doctor

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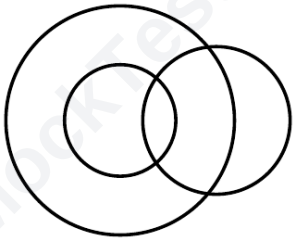
(a)



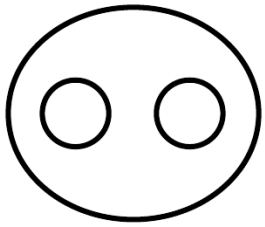
(b)



(c)



(d)



Q12. Arjun and Anurag complete a job in 5 days and 6 days respectively. They worked together and earned a total of Rs. 770. Find Arjun's share in this amount (in Rs.).

(a) 420
(b) 490
(c) 350
(d) 450

Q13. 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

Q14. Qamar gained 14% on the resale of a used stereo. If he purchased the item for Rs. 1,500 then how much did he sell it for?

(a) Rs. 1,660
(b) Rs. 1,710
(c) Rs. 1,740
(d) Rs. 1,820

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Q15. Select the number missing from the given series.

3, 12, _____, 21612

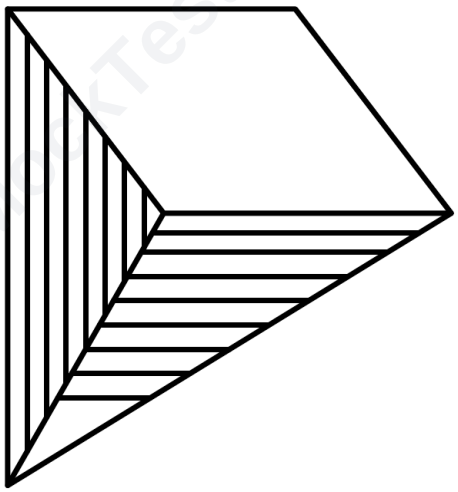
(a) 150
(b) 200
(c) 149
(d) 147

Q16. The unit of momentum is:

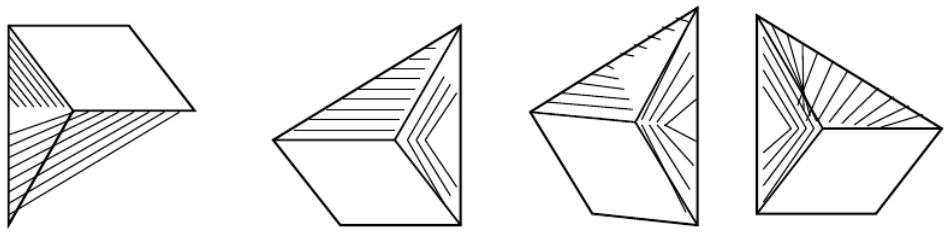
(a) Kgms²
(b) Kgms^(-2)
(c) Kgms
(d) Kgms^(-1)

Q17. Select the Answer Figure that is the correct water image of the given Problem Figure.

Problem Figure



Answer Figures



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

Q18. 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

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Q19. ABC$+#DEF&=?GHI!2*@

From the above sequence find the missing term.

ADG : +=2 ? CEI : _____

(a) D@?
(b) D?@
(c) E@?
(d) E?@

Q20. Roshan's current age is 2 years less than 1.6 times that of Usha's. 8 years ago, Usha's age was 1 year more than half of Roshan's age. What is Roshan's present age in years?

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

Q21. Which of the following animals has a comparatively longer intestine?

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

Q22. 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

Q23. Consider the given statements to be true and decide which of the given conclusions can definitely be drawn from the statements.

Statements:

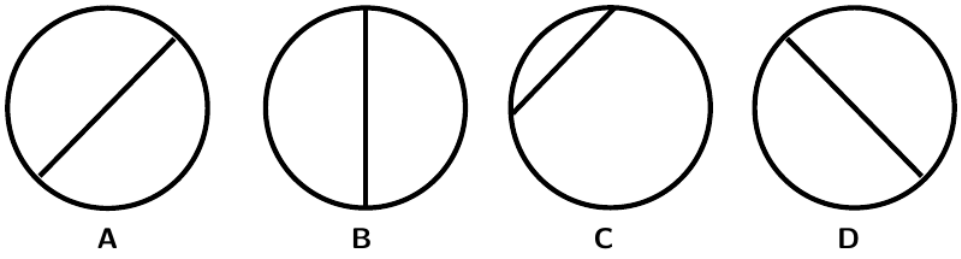
All sharks are fish. No fish is a snake.

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.

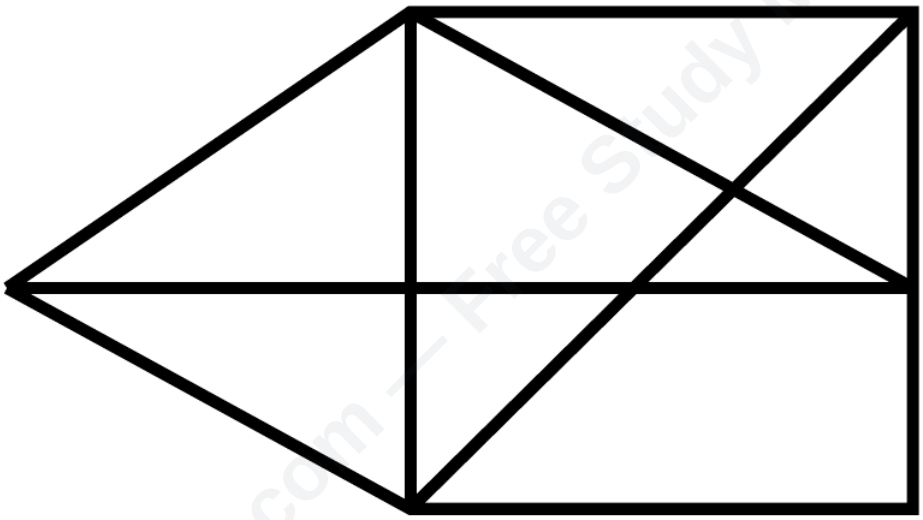
Q24. Select the figure which does NOT belong to the group.



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

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Q25. How many triangles are present in the following figure?



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

Q26. The _____ founded the first city of Delhi and named it Indraprastha.
(a) Pandavas
(b) Portuguese
(c) Kauravas
(d) Mughals

Q27. The angle of depression of the foot of a building from the top of a tower 50 m away is 60°. How high is the tower?
(a) 60 m
(b) 80√3 m
(c) 50√3 m
(d) 55 m

Q28. DWT : GZW ? QPM : _____
(a) TSP
(b) PST
(c) STP
(d) TPS

Q29. 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

Q30. Tapan, Ravi and Trisha shared a cake. Tapan had 1/3 of it, Trisha had 1/2 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

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Q31. The area of the base of a cone is 144π cm² while its slant height is 13 cm. This cone is remoulded to obtain a solid sphere. The radius of this sphere will be-

(a) 2cbrt30 cm
(b) cbrt180 cm
(c) 6.5 cm
(d) 2cbrt40 cm

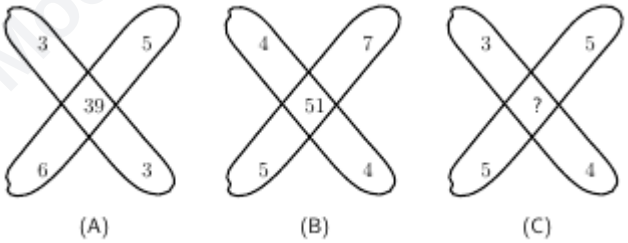
Q32. Who is the first Indian player to score a century in his debut One day International Cricket match? The said player achieved this feat in 2016.

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

Q33. Non-metal oxides are usually:

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

Q34. 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

Q35. 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%

Q36. _____ is known as India's Spice Garden.

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

Q37. The percentage of carbon in CO2 is:

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

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Q38. 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:

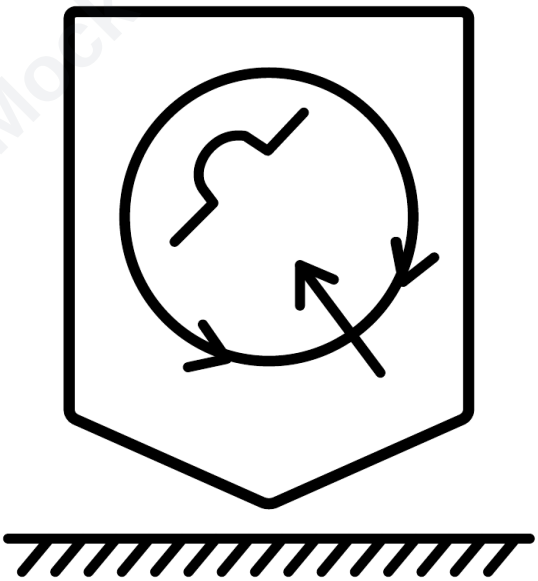
1. People need to plan accordingly for their trip between Bangalore and Tumkur.
2. The authority is troubling citizens with unnecessary repair work.

(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

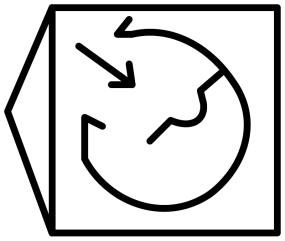
Q39. Which of the following changes when a body performs uniform circular motion?

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

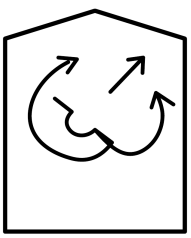
Q40. Select the correct mirror image of the given figure if the mirror is placed horizontally as shown.



(a)



(b)

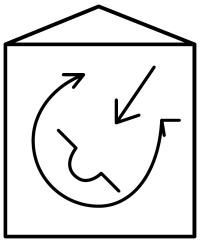


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(c)



(d)



Q41. The average marks obtained by Raghav in 15 tests are 25. Zubeida has maintained an average of 23 so far but has taken only 10 of the tests. If each test is out of 30, how much must Zubeida score on average in the remaining 5 tests to still have a chance to match Raghav's performance?

(a) 29
(b) 27
(c) 30
(d) 22

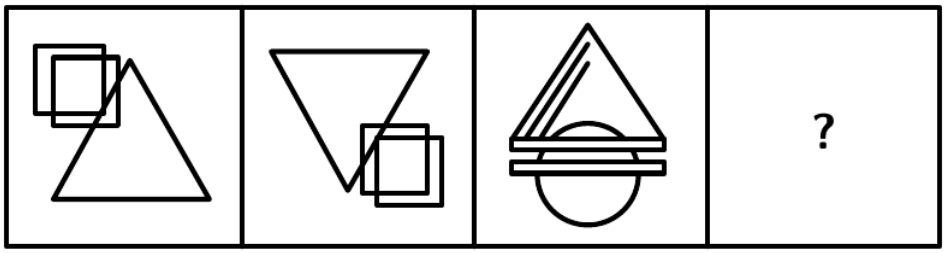
Q42. Facing North, Aishwarya turns 45° clockwise, then 135° anticlockwise and then 180° clockwise. Which direction is she is facing now?

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

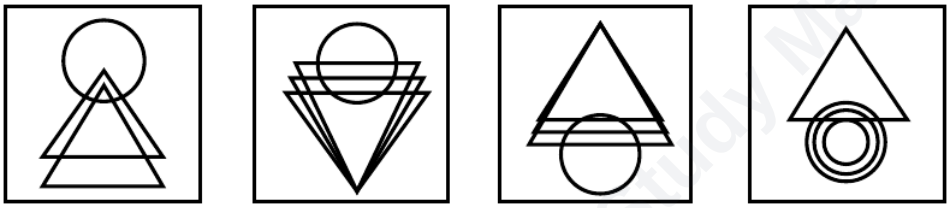
Q43. Rahi deposited Rs. 700 in a bank that promised 6% simple interest per annum. If Rahi kept the money with the bank for 5 years, she will earn an interest of:

(a) Rs. 280
(b) Rs. 200
(c) Rs. 210
(d) Rs. 240

Q44. Choose the correct figure from the answer that replaces the question mark.



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1 2 3 4

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

Q45. At 12% simple interest per annum a sum of money becomes Rs. 295 in 11/2 years. What was the sum invested?

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

Q46. From the top of a platform, the angle of elevation of a tower was 45°. The tower was 47 m high and the horizontal distance between the platform and the tower was 40 m. What was the height of the platform?

(a) 10 m
(b) 5 m
(c) 7 m
(d) 7√3 m

Q47. Which of the following elements replaced eka-Aluminium in Mendeleev's Periodic Table?

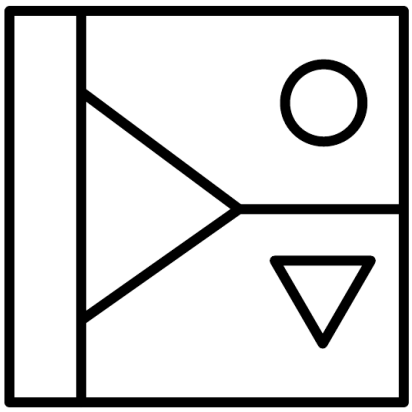
(a) Scandium
(b) Germanium
(c) Gallium
(d) Titanium

Q48. A, B and C can complete a task together in 8 days. A and B would need 16 days if only the two of them worked, while A and C would take 12 days if only the two of them worked. If A worked alone, how many days would A take to compete the task?

(a) 30
(b) 48
(c) 60
(d) 45

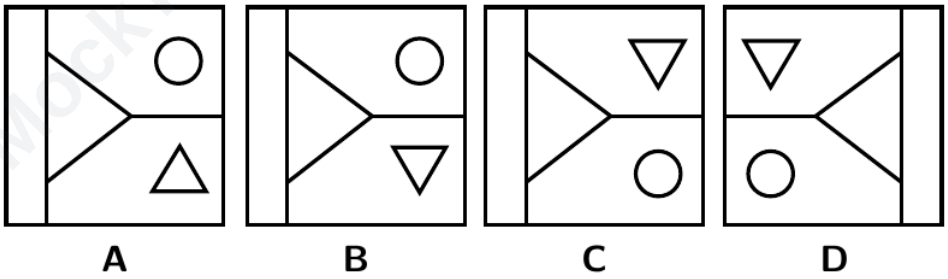
Q49. Choose the correct water image of the given figure:

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Problem Figure

Answer Figures



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

Q50. 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

Q51. 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

Q52. Hydra reproduces by _____.

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

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Q53. Which of the following is a Pythagorean triplet?

(a) 7, 9, 12
(b) 5, 12, 13
(c) 2, 3, 4
(d) 17, 21, 27

Q54. 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

Q55. Which of the following processes will take place the slowest for the same quantity of liquid?

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

Q56. A computer always has a:

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

Q57. 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

Q58. 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
(d) Hockey India League

Q59. Ram's father is thrice as old as Ram is. 4 years ago, the age of Ram's father was 4 times his age. What is Ram's current age?

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

Q60. Pipes A and C can fill an empty cistern in 16 and 24 hours respectively while Pipe B can drain the filled cistern in 12 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 full?

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

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Q61. 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

Q62. What is the mean of first 60 natural numbers?

(a) 30.5

(b) 31

(c) 30

(d) 31.5

Q63. 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

Q64. A natural number, when divided by 3, 4, 6 and 7, leaves a remainder of 2 in each case. What is the smallest of all such numbers?

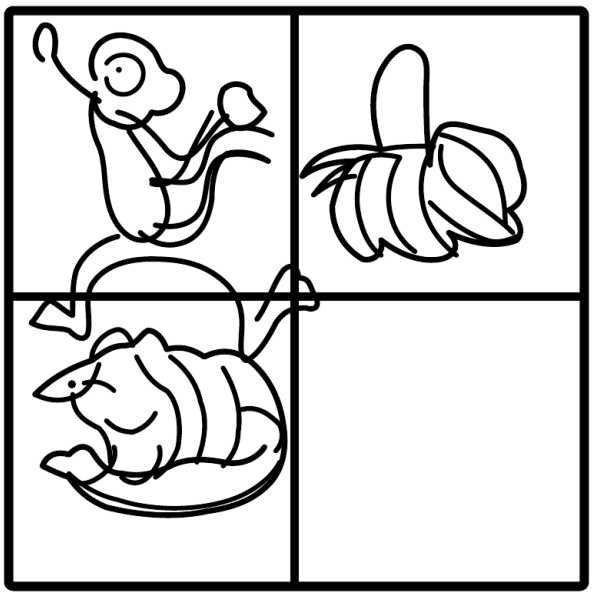
(a) 213

(b) 843

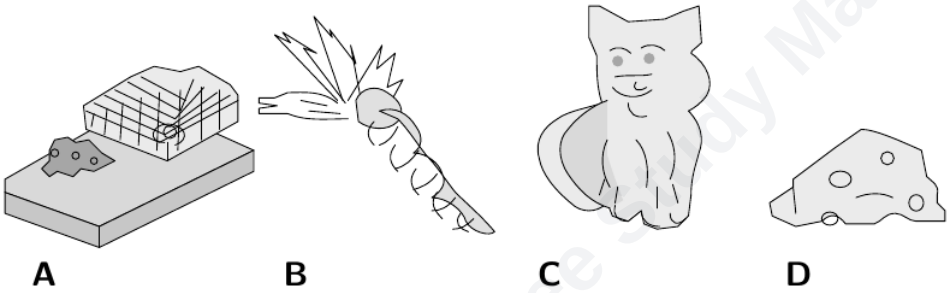
(c) 86

(d) 63

Q65. Fill in the missing space with the correct figure.



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

Q66. 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.

Q67. 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

Q68. Select the missing term based on the given related pair of words.

_____ : Hand ? Sole : Foot

(a) Finger
(b) Palm
(c) Wrist
(d) Nail

Q69. Which Indian actor-turned-politician won the 2017 Filmfare Lifetime Achievement Award?

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

Q70. The HCF of 56, 84 and 98 is:

(a) 7
(b) 16
(c) 14
(d) 9

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Q71. 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

Q72. Which of the following physical quantity measures the rate of work done?

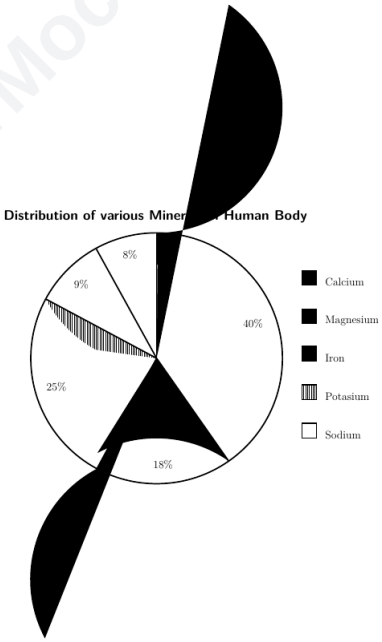
(a) Force
(b) Energy
(c) Power
(d) Momentum

Q73. The square root of which of the following numbers is irrational?

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

Directions

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



Q74. Based on the given data, what is the ratio of the minerals with the highest percentage of distribution to that with the lowest percentage of distribution in the human body?

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

Q75. Which celebrity is the author of the book ‘An Unsuitable Boy’?

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

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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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