RRB ALP CBT I 29 Aug 2018 Shift 2 Official Paper (Previous Year Paper)

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

Take this paper as a timed mock test

Practise under exam conditions, then review your answers after you submit.

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STAGE I (CBT I)

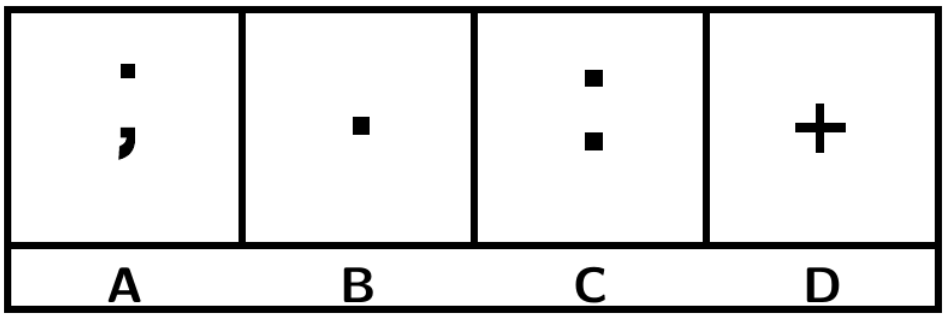
Q1. If in a certain code language, PUZZLING is written as ZZUPGNIL and JIPIJAPA is written as IPIJAPAJ, then what will SWIZZLED be written as in the same code?

(a) ZIWSDEZL
(b) ZIWSDELZ
(c) ZIWDSELZ
(d) ZIWSEDLZ

Q2. The HCF of 42, 63 and 105 is:

(a) 21
(b) 63
(c) 630
(d) 7

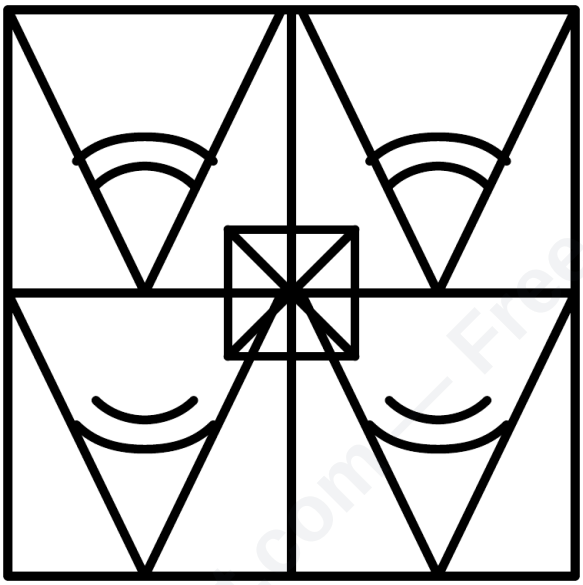
Q3. Select the figure that does NOT belong in the following group.



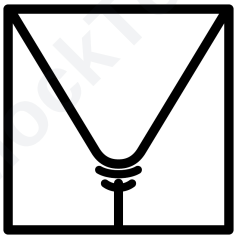
(a) C
(b) B
(c) D
(d) A

Q4. Select the option that will correctly fit in the blank space of the given figure.

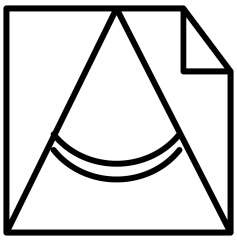
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(a)



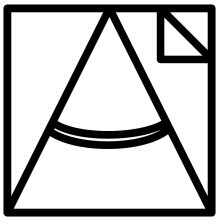
(b)



(c)



(d)



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Q5. The following table shows the gain in weight by 25 children in a year. What is the mean value of gain in weight?

Gain in weight (in kg)	No. of children
1.5	4
2	5
2.4	8
3	5
3.2	2
3.4	1

(a) 3.2
(b) 2.1
(c) 2.4
(d) 1.9

Q6. Which of the following are bad conductors of electricity?

A) Mica and Quartz
B) Metals and Rubber
C) Metals and Mica

(a) A only
(b) A and C only
(c) A and B only
(d) B and C only

Q7. On which date Swachh Bharat Mission was started by PM Narendra Modi to fulfill India's biggest dream of being a clean nation?

(a) 2nd OCT 2014
(b) 14th NOV 2015
(c) 14th Nov 2014
(d) 2nd OCT 2015

Q8. The base of a parallelogram is twice its height. If the area is 392 sq.m, What is its the height?

(a) 12 m
(b) 24 m
(c) 14 m
(d) 28 m

Q9. An element with an atomic number of 17 is:

(a) a halogen gas
(b) a transition metal
(c) a rare gas
(d) an alkali metal

Q10. Which of the following is NOT true for the reaction of Calcium with water?

(a) Heat evolved is less
(b) The reaction is more violent
(c) H2 gas is evolved
(d) Calcium starts floating

Q11. A boat at anchor is rocked by waves whose consecutive crests are 100 m apart. The wave velocity of the moving crests is 25 ms^(-1). What is the frequency of rocking of the boat?

(a) 100 Hz
(b) 0.25 Hz

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(c) 625 Hz
(d) 25 Hz

Q12. A convex lens has a focal length of 50 cm. Calculate its power.

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

Q13. If 3 tan θ = 2, find the value of (2 sin θ-cos θ)/(2 cos θ-sin θ).

(a) 1/3
(b) 0
(c) 1/4
(d) 1/2

Q14. Consider the given statement to be true and decide which of the following assumptions is/are implicit in the statement.

Statement:

Company X announced that in their company, 10 clerical jobs will be filled, with the minimum eligibility criteria being bachelor's degree pass.

Assumptions:

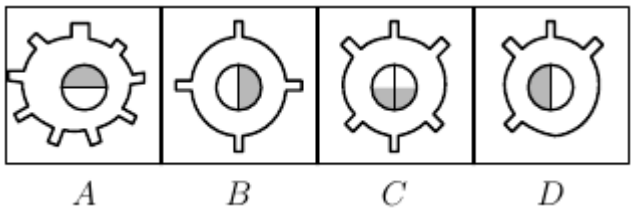
1. Those who have passed the bachelor's degree can apply.
2. Masters can also apply.

(a) Only assumption 1 is implicit.
(b) Either assumption 1 or 2 is implicit.
(c) Only assumption 2 is implicit.
(d) Both assumptions 1 and 2 are implicit.

Q15. What is the physical state of water at 12°C?

(a) Liquid
(b) Ionic
(c) Gas
(d) Solid

Q16. Select the option that does NOT belong in the following figure series.



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

Q17. Who is the first Indian cricketer to have grabbed BCCI's Polly Umrigar Award three times?

(a) Virat Kohli
(b) Gautam Gambhir
(c) Sachin Tendulkar
(d) M. S. Dhoni

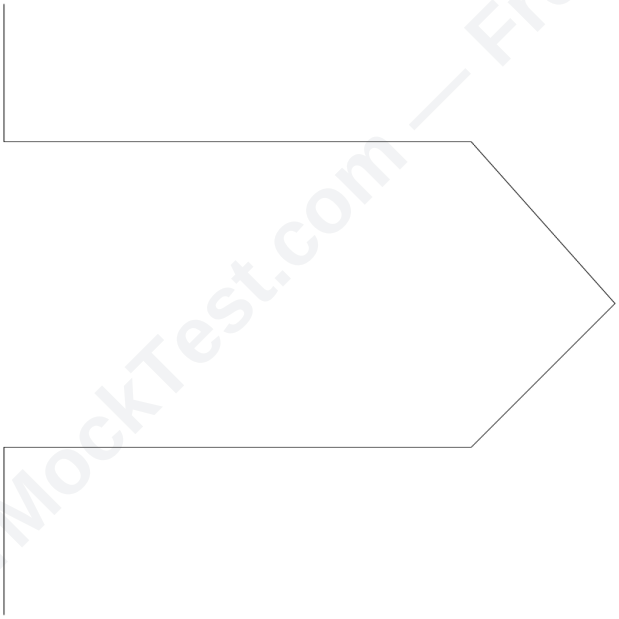
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Q18. Identify the former ISRO chairman and space scientist who became the first Indian to be inducted in the International Astron Federation (IAF) Hall of Fame.

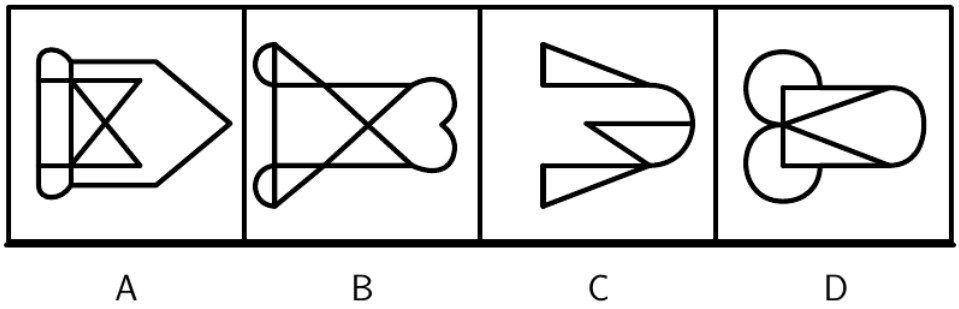
(a) Udupi Ramachandra Rao
(b) Subhramniyam Swamy
(c) Parmeshwar Lal Saran
(d) A. S. Kiran Kumar

Q19. The given Problem Figure is embedded in one of the given Answer Figures. Which is that Answer Figure?

Problem Figure



Answer Figures



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

Q20. The rate of change of displacement is called:

(a) Velocity
(b) Speed
(c) Distance
(d) Acceleration

Q21. Two balls of steel having mass of 5 kg and 10 kg each possess equal kinetic energy. Which ball is moving faster, if at all?

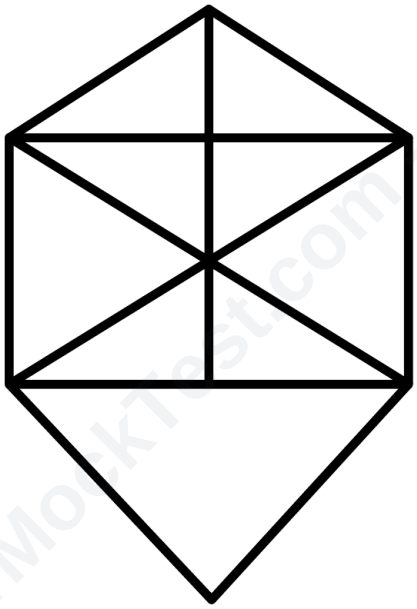
(a) The 10 kg ball is moving faster.
(b) Both the balls are moving at the same speed.
(c) Kinetic energy does not depend upon the speed of the body.
(d) The 5 kg ball is moving faster.

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Q22. 4 workers working 6 hours per day can finish painting a wall in 21 days. If 7 workers work for 4 hours per day, in how many days will they be able to finish the same work?

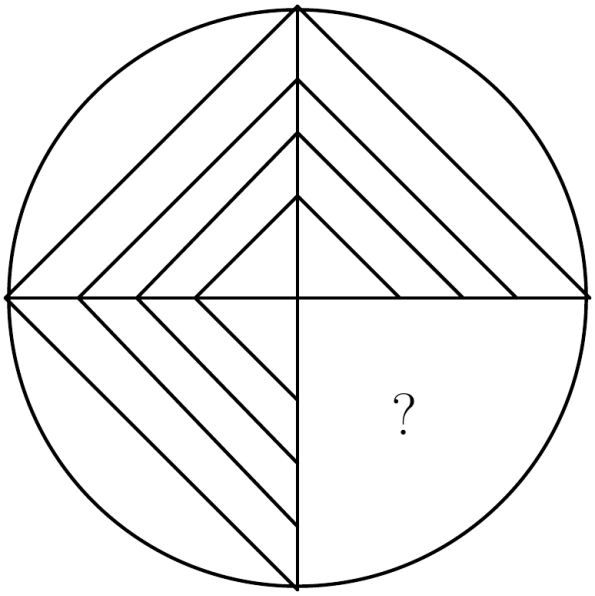
(a) 28
(b) 24
(c) 32
(d) 18

Q23. Select the option that represents the number of triangles in the given figure.



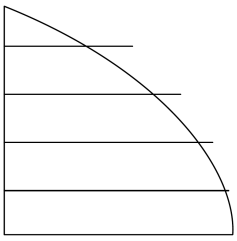
(a) 14
(b) 16
(c) 18
(d) 17

Q24. Select the option that will correctly fit in the blank space of the following figure.

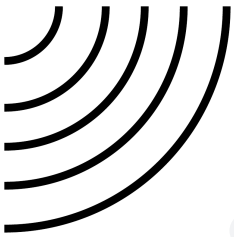


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(a)



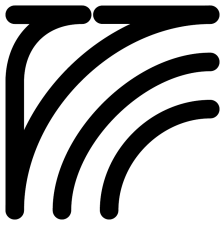
(b)



(c)



(d)



Q25. Who coined the phrase 'Survival of the Fittest'?

(a) Gregor Johann Mendel
(b) Herbert Spencer
(c) Dr. Har Gobind Khorana
(d) Charles Darwin

Q26. When a wire 25.2 m long is divided in the ratio 11 : 25 the length of the longer piece is:

(a) 15.2 m
(b) 7.7 m
(c) 17.5 m
(d) 18.4 m

Q27. The mean of the 5 smallest numbers from a group is 15 while the mean of all the numbers of the group taken together is 17. If the mean of the numbers leaving the smallest five out is 18.25, how many numbers were there in the group in all?

(a) 14
(b) 8
(c) 13
(d) 12

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Q28. Which of the following methods will separate water from muddy water?

(a) Filtration
(b) Separating funnel
(c) Distillation
(d) Crystallization

Q29. Which of the following is NOT a double displacement reaction?

(a) $BaCl_2 + H_2SO_4 \rightarrow BaSO_4 + 2HCl$
(b) $2H_2 + O_2 \rightarrow 2H_2O$
(c) $CuSO_4 + H_2S \rightarrow CuS + H_2SO_4$
(d) $NaOH + HCl \rightarrow NaCl + H_2O$

Q30. The book 'Six Machine: I Don't Like Cricket I Love It' is the autobiography of which is a Jamaican cricketer who plays international cricket for the West Indies.

(a) Andre Russell
(b) Chris Gayle
(c) Sunil Narine
(d) Darren Michael Bravo

Q31. Select the INCORRECT match's from the following.

A.	Copper	Cu
B.	Gold	Au
C.	Mercury	Me
D.	Platinum	Pt
E.	Silver	Ag

(a) Only E
(b) Only C
(c) A and B
(d) D, B and C

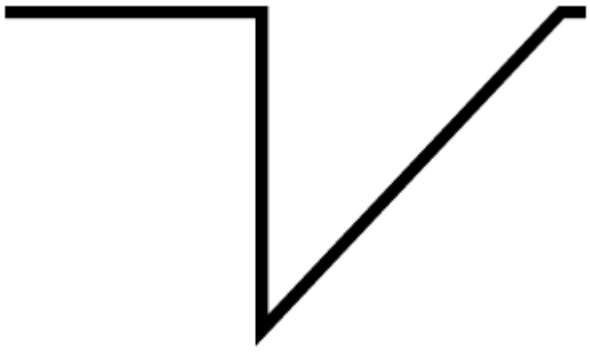
Q32. Select the option that can replace the question mark (?) in the following equation.

$2 + 5 \div [5 + 8 \div (1+1/3) - 1] = ?$

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

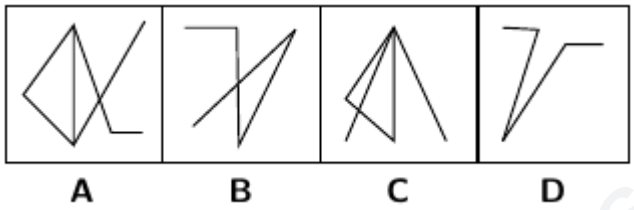
Q33. The given Problem Figure is embedded in one of the given Answer Figures. Which is that Answer Figure?

Problem Figure



Answer Figures

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

Q34. Which of the following statements is/are true or false?

Statements:

A) On moving from left to right in a period, the chemical reactivity of elements first decreases and then increases.

B) The chemical reactivity of non-metals increases on going down in a group of the periodic table.

(a) Statements A and B are true
(b) Statement A is true, but B is false
(c) Statement B is true, but A is false
(d) Statements A and B are false

Q35. Who has been appointed as the Chairperson of the Central Board of Film Certification (CBFC) as of March 2018?

(a) Subhash Ghai
(b) Jaya Bachchan
(c) Anupam Kher
(d) Prasoon Joshi

Q36. The sum of potential energy and kinetic energy is known as:

(a) Electrical energy
(b) Mechanical energy
(c) Chemical energy
(d) Light energy

Q37. Select the missing term based on the given related pair of terms.

RAT : 18120 :: GOD : _____

(a) 7174
(b) 7164
(c) 7154
(d) 7144

Q38. If each of the two equal angles of an isosceles triangle is twice the third angle, the measure of the third angle is:

(a) 45°
(b) 36°
(c) 72°
(d) 90°

Q39. If pointing at X, Y says that X is the son of the only son of Y's mother, then Y's father is X's _____.

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

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Q40. Two pipes A and B can fill an empty cistern in 32 and 48 hours, respectively. Pipe C can drain the entire cistern in 64 hours when no other pipe is in operation. Initially, when the cistern was empty Pipe A and Pipe C were turned on. After a few hours, Pipe A was turned off and Pipe B was turned on instantly. In all it took 112 hours to fill the cistern. For how many hours was Pipe B turned on?

(a) 84
(b) 77
(c) 70
(d) 72

Q41. The Union Environment Ministry has launched a pilot project for beach clean-up and development named:

(a) Swatch Bharat
(b) Green Flag
(c) Clean India
(d) Blue Flag

Q42. 56% of 375 is:

(a) 168
(b) 196
(c) 224
(d) 210

Q43. Select the option that is related to the third term in the same way as the second term is related to the first term.

Electricity : Galvanometer :: Atmospheric Pressure : _____

(a) Barometer
(b) Osmometer
(c) Sphygmomanometer
(d) Hydrometer

Q44. Which of the following companies was bestowed the status of Maharatna company by the government of India in September 2017?

(a) Oil and Natural Gas Corporation (ONGC)
(b) Bharat Petroleum Corporation Limited (BPCL)
(c) National Thermal Power Corporation (NTPC)
(d) Steel Authority of India Limited (SAIL)

Q45. The reciprocal of the value of 31/12- [1-3/4+{21/2-(11/2-1/3)}] is

(a) 1
(b) 2
(c) 0
(d) 2/3

Q46. Rs. x invested at 9% simple interest per annum for 5 years yields the same interest as that on Rs. y invested at 7.5% simple interest per annum for 4 years. Find x : y.

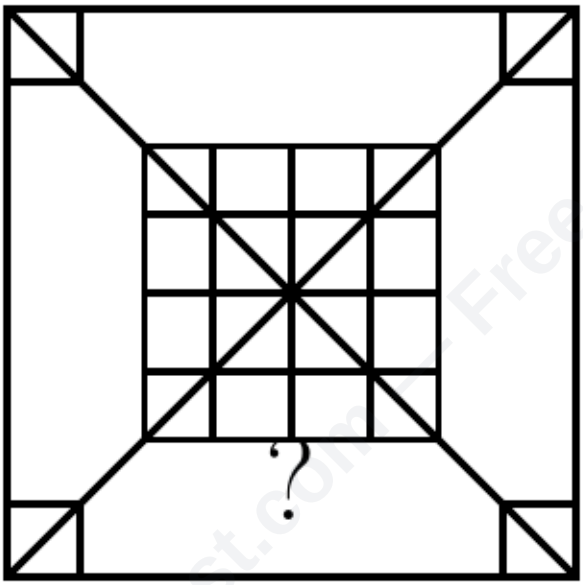
(a) 45 : 30
(b) 8 : 9
(c) 16 : 15
(d) 2 : 3

Q47. Which cell organelle is called the Master of the Cell?

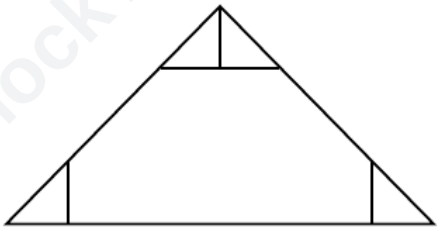
(a) Mitochondria
(b) Endoplasmic reticulum
(c) Nucleolus
(d) Nucleus

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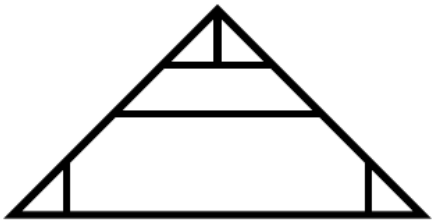
Q48. Select the option that will fit in the blank space in the given figure.



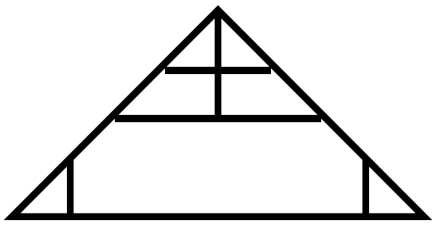
(a)



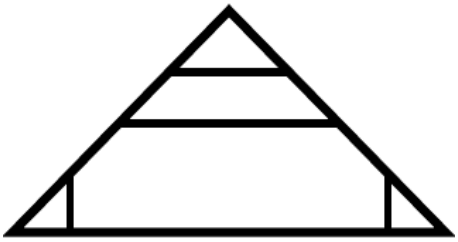
(b)



(c)



(d)



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Q49. Read the following question and decide which of the given statements is/are sufficient to answer the question.

What is the colour of human blood?

Statements:

1. Blue is called pink, red is called orange and orange is called yellow.
2. White is called black, black is called green, green is called brown and brown is called red.

(a) Either 1 or 2 is sufficient to answer the given question.
(b) 1 alone is sufficient while 2 alone is not sufficient to answer the given question.
(c) Both 1 and 2 together are sufficient to answer the given question.
(d) 2 alone is sufficient while 1 alone is not sufficient to answer the given question.

Q50. Consider the given statements to be true and decide which of the conclusions logically follow (s) from the statements.

Statements:

Some offices are companies. All companies are factories.

Conclusions:

1. Some factories are offices.
2. All offices are factories.

(a) Both conclusions 1 and 2 follow.
(b) Either conclusion 1 or 2 follows.
(c) Only conclusion 2 follows.
(d) Only conclusion 1 follows.

Q51. A watch gains 5 seconds per minute and was set right at 6 AM. What would be the time shown on the watch when the correct time is 2 PM?

(a) 2.40 PM
(b) 2.30 PM
(c) 2.20 PM
(d) 2.50 PM

Q52. In the usual set notation,

$A \cup (B \cap C) =$

(a) $(A \cup B) \cap (A \cap C)$
(b) $(A \cap B) \cup (A \cap C)$
(c) $(A \cup B) \cup (A \cup C)$
(d) $(A \cup B) \cap (A \cup C)$

Q53. The _____ was built by the Kakatiya kings of the 12^(th) century which was rebuilt by the Qutab Shahi dynasty in the 14^(th) century.

(a) Fort Kochi
(b) Agra Fort
(c) Mandu Fort
(d) Golconda Fort

Q54. 58% of 350 is:

(a) 210
(b) 203
(c) 196
(d) 217

Q55. An object of mass 15 kg is moving with a uniform velocity of 4 ms^(-1). What is the kinetic energy possessed by the object?

(a) 60 J
(b) 12 J
(c) 1.2 J

(d) 120 J

Q56. Pollen grains are found in:

(a) anthers
(b) locule
(c) ovules
(d) stigma

Q57. On the basis of the sequence VWY9PONI5FSLUDTG61AJ, select the missing term from the following series.

VN, PF, 5U, ____

(a) LG
(b) U6
(c) UG
(d) LT

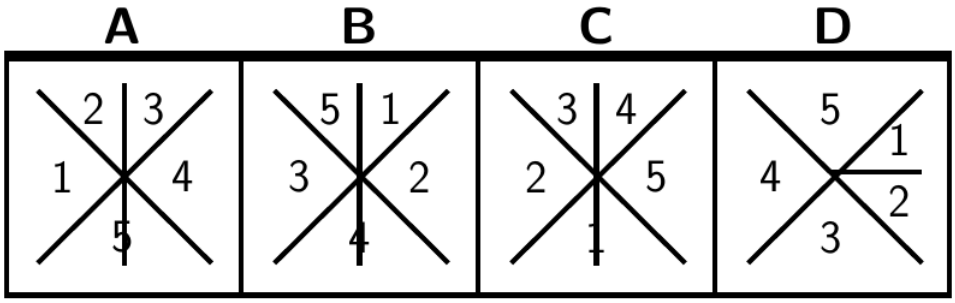
Q58. A and B can complete a task together in 35 days. If A works alone and completes 5/7 of the task and then leaves the rest for B to complete by herself, it will take a total of 90 days to complete the task. How many days would it take A, the more efficient among the duo, to complete the entire work by herself?

(a) 45
(b) 48
(c) 40
(d) 42

Q59. 252 ÷ [51 - {27 - (9 - 8+7)}] = ?

(a) 9
(b) 7
(c) 14
(d) 18

Q60. Select the figure that does NOT belong in the following group.



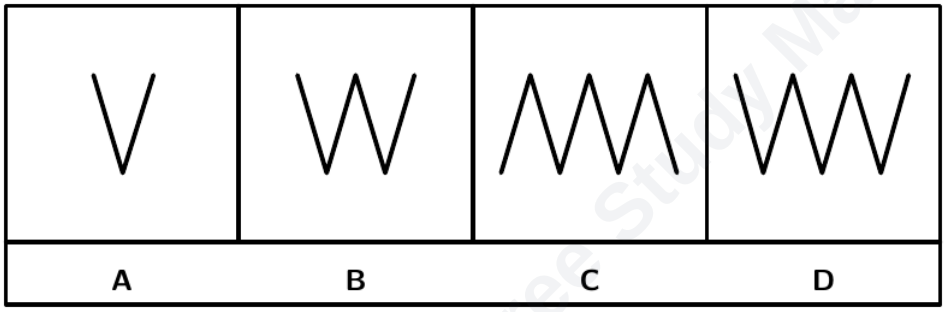
(a) A
(b) D
(c) C
(d) B

Q61. The HCF of 162, 54 and 135 is:

(a) 3
(b) 1
(c) 9
(d) 27

Q62. Select the figure that does NOT belong in the following group.

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

Q63. Choose the word which is least like the other words in the group?

(a) Crow
(b) Squirrel
(c) Monkey
(d) Duck

Q64. Select the pair that is analogous to the given pair of words.

Lawyer : Cross-examine

(a) justice : court
(b) army : gun
(c) exam : college
(d) police : investigate

Q65. What is the name of the canal that connects the Pacific Ocean to the Atlantic Ocean? It was commissioned in the year 1914.

(a) Kiel Canal
(b) Suez Canal
(c) Panama Canal
(d) White Sea Canal

Q66. 15 pipes, each having the same diameter, can fill a cistern in 12 minutes. How long will it take for 6 pipes, each with double the original diameter, to fill the same cistern at the same speed of the flow?

(a) 7.5 minutes
(b) 10 minutes
(c) 9.5 minutes
(d) 12 minutes

Q67. During the combustion of unsaturated compounds, a _____ is seen.

(a) red flame
(b) yellow flame
(c) clean flame
(d) blue flame

Q68. Read the following question and decide which of the given statements is/are sufficient to answer the question.

If U, V and W are negative numbers, and Z is a number, then is Z positive?

Statements:

1. $Z = V - W$
2. $Z \times V = U$

(a) Either 1 or 2 is sufficient to answer the question.
(b) Both 1 and 2 are sufficient to answer the question

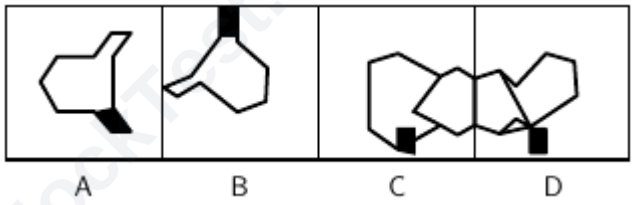
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(c) 2 alone is sufficient while 1 alone is not sufficient to answer the question.
(d) 1 alone is sufficient while 2 alone is not sufficient to answer the question.

Q69. Which of the following is not an example of a biomass energy source?
(a) Ethanol
(b) Cow dung
(c) Atomic energy
(d) Wood

Q70. The _____ is responsible for precision of voluntary actions and for maintaining the posture and balance of the body.
(a) Cerebrum
(b) Cerebellum
(c) Spinal cord
(d) Mid-brain

Q71. Select the figure that does NOT belong in the following group.



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

Q72. The annual buffalo race called Kambala is a festival celebrated in which Indian state?
(a) Kerala
(b) Punjab
(c) Karnataka
(d) Odisha

Q73. Consider the given statement as true and decide which of the given conclusions can definitely be drawn from the given statements.
Statements:
Some chairs are desks.
All benches are desks.
Conclusions:
1. Some desks are benches.
2. Some desks are chairs.
(a) Only conclusion 1 follows
(b) Only conclusion 2 follows
(c) Either 1 or 2 follows
(d) Both 1 and 2 follow

Q74. Find the LCM of 37, 111 and 148.
(a) 222
(b) 296
(c) 424
(d) 444

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Q75. Which of these numbers is divisible by 6?

(a) 34672
(b) 45678
(c) 23456
(d) 56792

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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