RRB ALP CBT I 31 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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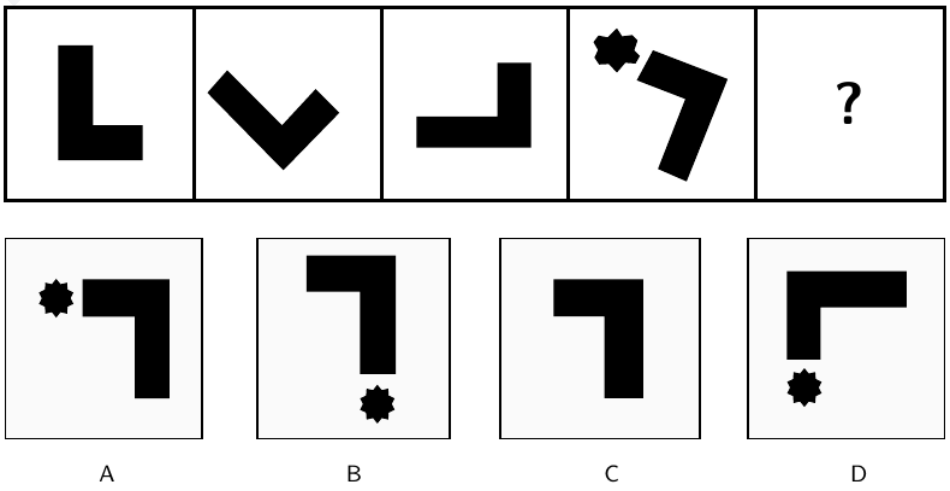
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STAGE I (CBT I)

Q1. The sum of the lengths of the edges of a cube is equal to half the perimeter of a square. If the numerical value of the volume of the cube is equal to one-sixth of the numerical value of the area of the square, then the length of one side of the square is:

(a) 31.5 units
(b) 36 units
(c) 18 units
(d) 27 units

Q2. Select the option that will come next in the following figure series:



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

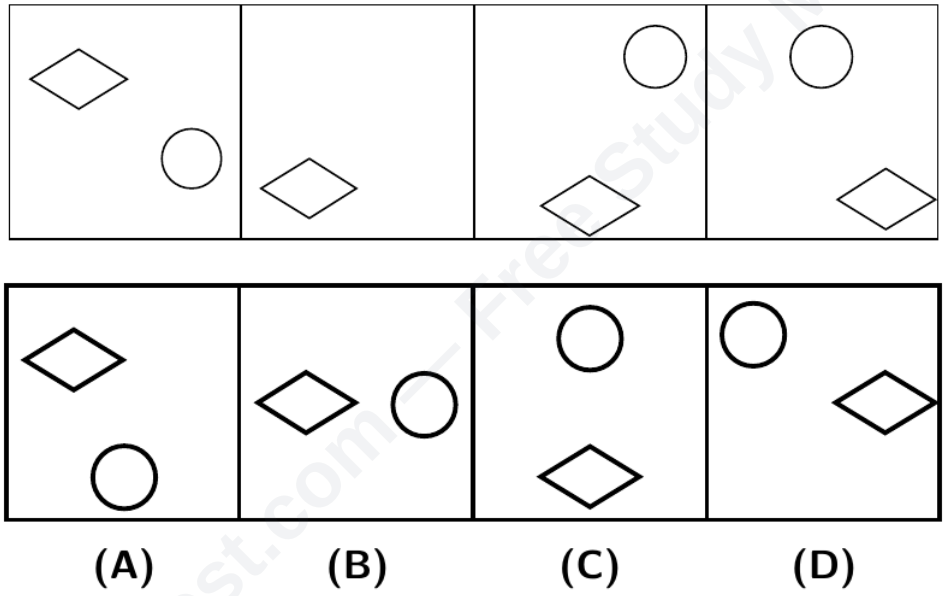
Q3. Who was the first Indian to win the 52^(nd) Capablanca Manorial Chess tournament 2017 in Cuba?

(a) Krishnan Sasikiran
(b) Adhiban Baskaran
(c) Pentala Harikrishna
(d) K Srikanth

Q4. In Modern Periodic Table, elements present in the same period will have the same _____.

(a) atomic weight
(b) atomic number
(c) number of shells
(d) valence electrons

Q5. Select the figure that will come next in the following series.



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

Q6. Pipe A can fill an empty cistern in 4 hours while along with Pipe B it can fill it up in 3 hours. Only Pipe A is turned on for an hour after which Pipe B is also turned on. How much total time will it take to fill up the cistern?

(a) 3 hours 25 minutes
(b) 3 hours 15 minutes
(c) 3 hours
(d) 3 hours 20 minutes

Q7. When iron is exposed to moist air, a reddish brown coating of hydrated Iron (III) Oxide (Fe_2O_3) is deposited on its surface. This reddish-brown coating is called _____.

(a) dust
(b) rust
(c) iron
(d) alloy

Q8. If the second half of the given series is reversed, then what will be the fifth term to the left of the ninth term from the right?

9$YX8N6OLBUJZT@1QFD%

(a) T
(b) O
(c) 6
(d) Q

Q9. Which Malayalam actress won the National Film Award for the film ‘Minnaminungu’ in 2017?

(a) Gopika
(b) Mamta Mohandas
(c) Amala Paul
(d) Surabhi Lakshmi

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Q10. What will come in place of ? in the following equation.

0.296 + 2.96 + 29.6 + 296 = ?

(a) 327.856
(b) 328.856
(c) 328.756
(d) 327.756

Q11. An unbalanced chemical equation is called a:

(a) skeletal chemical equation
(b) rough chemical equation
(c) complex chemical equation
(d) natural chemical equation

Q12. Two pipes X and Y can individually fill a tank in 48 and 72 minutes respectively. If they are opened simultaneously, how long would it take for the tank to fill?

(a) 24 minutes
(b) 60 minutes
(c) 28.8 minutes
(d) 39.4 minutes

Q13. Consider the given statement and decide which of the given assumptions is (are) implicit in the statement.

Statement:

The class teacher announced in the class that those who are going to the museum should deposit Rs. 200 by tomorrow 3 pm.

Assumptions:

1. It is mandatory to go to the museum.

2. All students should deposit Rs. 200.

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

Q14. A train crosses a 550 m long platform in 36 seconds. How long was the train if it was travelling at the speed of 70 km/h?

(a) 140 m
(b) 150 m
(c) 160 m
(d) 525 m

Q15. The study of human evolution indicates that all of us belong to a single species that evolved in _____.

(a) West Asia
(b) America
(c) Central Asia
(d) Africa

Q16. Pramod can paint a wall red in 12 hours while Brajen can paint the wall red completely in 16 hours. If Pramod and Brajen work alternately for an hour each stalling when the wall has just cement on it till when it is completely painted red, how many hours will it take to paint the entire wall red?

(a) 12 hours 30 minutes
(b) 13 hours 40 minutes
(c) 14 hours
(d) 13 hours

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Q17. According to Ohm's Law, which of the following is true?

(a) The current flowing through a wire is inversely proportional to its length
(b) The current flowing through a wire is directly proportional to its Resistance.
(c) The current flowing through a wire is directly proportional to the Potential Difference applied across its ends.
(d) The current flowing through the wire is inversely proportional to the Potential Difference applied across its ends.

Q18. Who among the following is the first vice-chairman of NITI Aayog?

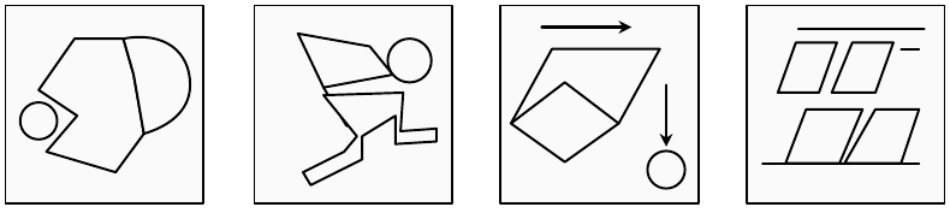
(a) Narendra Modi
(b) Arvind Panagariya
(c) Rajiv Kumar
(d) Ajit Tyagi

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

Problem Figure



Answer Figure



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

Q20. In the word ACCUMULATE, if the 1^(st) letter is interchanged with the 2^(nd), 3^(rd) letter with the 4^(th), 5^(th) with the 6^(th), 7^(th) with the 8^(th) and 9^(th) with the 10^(th), then the 6th letter from the left will be:

(a) L
(b) U
(c) M
(d) S

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Q21. The selling price of an item inclusive of a 16% profit was Rs. 435. What would be the percentage loss if the item was sold for Rs. 330?

(a) 12.25
(b) 13
(c) 12.5
(d) 12

Q22. The total percentage of illiterates in all the four cities is _____ (round to one decimal place).

City	Population	Literate	illiterate	% of literate
A	200	150	50	•
B	•	200	100	66.6
C	150	50	100	•
D	120	•	90	25

(a) 44.2
(b) 42.3
(c) 43.1
(d) 44.5

Q23. In the series 5442673314884743581, the number of 4s that are completely divisible by the number on their right but not divisible by the number on their left is:

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

Q24. Select the option that can replace the question mark (?) in the following equation $((0.3)^3 + (0.2)^3)/((0.3 - 0.2)^2) = ?$

(a) 2
(b) 3/2
(c) 5/2
(d) 7/2

Q25. Select the missing term based on the given related pair of terms.

COULD: BNTKC :: MOULD :_____

(a) NITKH
(b) CHMFI
(c) LNKTC
(d) LNTKC

Q26. Which international tyre company has recently appointed ace badminton queen PV Sindhu as their brand ambassador?

(a) Michelin
(b) Bridgestone
(c) Pirelli
(d) Continental

Q27. What percentage of 1 day is 18 minutes?

(a) 1.25%
(b) 12.5%
(c) 7.5%
(d) 1.8%

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Q28. When large quantities of _____ are consumed, it tends to slow metabolic processes and to depress the central nervous system.

(a) Ethanol
(b) Methanol
(c) Butanol
(d) Propanol

Q29. Which of the following numbers is divisible by 12?

(a) 93412
(b) 73412
(c) 83412
(d) 63412

Q30. A body has a weight W on the surface of Earth. What is its weight on a planet whose mass is 15 times that of Earth and a radius that is 4 times that of the earth?

(a) 16/9 W
(b) 15/16 W
(c) 17/6 W
(d) 15/4 W

Q31. What is the least number consisting of five digits that is exactly divisible by 12, 18, 20 and 25?

(a) 10800
(b) 11250
(c) 10000
(d) 10680

Q32. The length of one side of a rhombus is 17 cm and one of the diagonals was 16 cm. Find the length of the other diagonal.

(a) 16 cm
(b) 20 cm
(c) 32 cm
(d) 30 cm

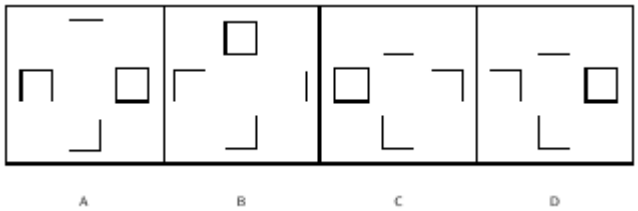
Q33. If $3x^2 + kx + k = 0$ has no solution, then the value of k will satisfy:

(a) $0 < k < 12$
(b) $k > 12$
(c) $k < 12$
(d) $k > -12$

Q34. Which male cricketer has been appointed as the UNICEF and Cricket for Good ambassador for the ICC Women's Cricket World Cup 2017?

(a) Clive Lloyd
(b) Brian Lara
(c) Sachin Tendulkar
(d) Shane Warne

Q35. Select the figure that does not belong in the following series.



(a) A
(b) D

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(c) B
(d) C

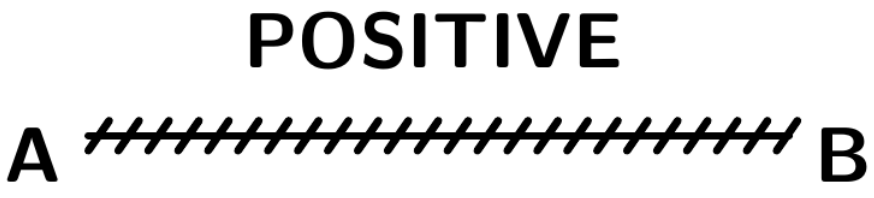
Q36. The Brownian Motion was discovered by _____.
(a) Mandel Brown
(b) Robert Brown
(c) John Brown
(d) Isaac Newton

Q37. Which of these two water bodies are connected by the Suez Canal?
(a) The Mediterranean Sea and the Black Sea
(b) The Mediterranean Sea and the Red Sea
(c) The Pacific Ocean and the Atlantic Ocean
(d) The Black Sea and the Red Sea

Q38. _____ is the liquid part of the blood of which 90% - 92% is water and the remaining 7% - 8% is made up of proteins, minerals, hormones, enzymes, and so on.
(a) Plasma
(b) WBC
(c) Blood platelet
(d) RBC

Q39. The radius of curvature of a concave mirror is 30 cm. Following Cartesian Sign Convention, its focal length is expressed as _____.
(a) • 30 cm
(b) • 15 cm
(c) – 30 cm
(d) – 15 cm

Q40. Select the option that depicts the collect minor image of the given word when the mirror is placed horizontally below the word.



(a)



(b)



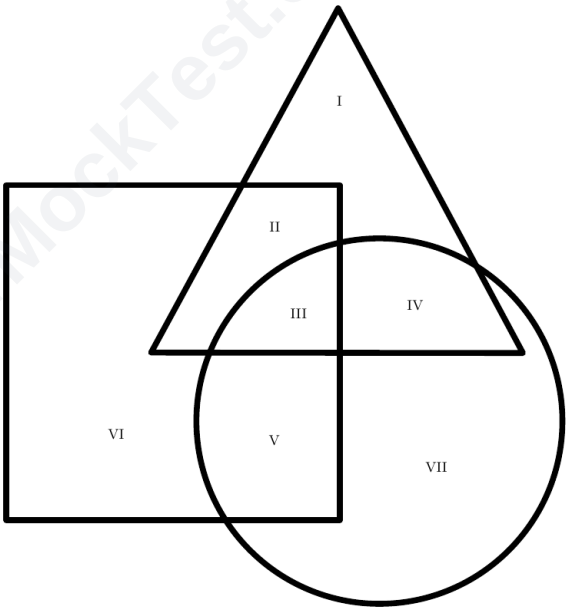
(c)



(d)



Q41.



In the given diagram, the triangle represents the set of people who possess a car; the square represents the set of people who possess a house; and the circle represents the set of people who possess gold.

What is the total number of people who possess a house and gold but do not have a car?

(a) V + VI
(b) V + VII
(c) V
(d) V + III

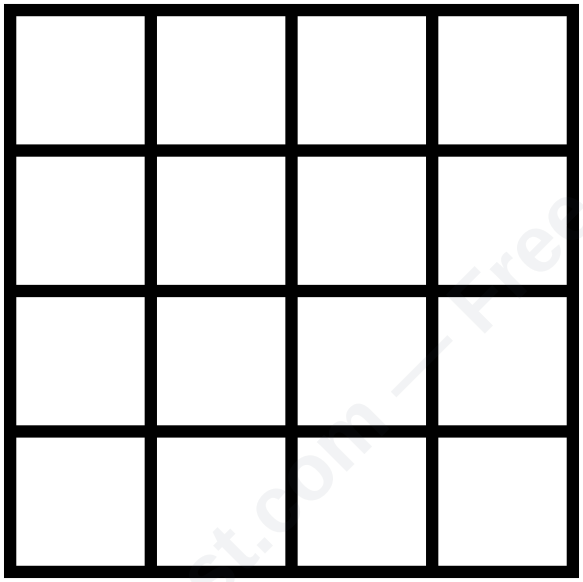
Q42. Which of the following statements is INCORRECT?

(I) Bleaching powder is a pale yellow powder.
(II) Dry NH3 gas turns red litmus blue.
(III) The pH of rainwater is nearly 7.
(IV) The pH of acid rain is nearly 5.6.

(a) All of the above statements are correct
(b) I), II) and III)
(c) Only II)
(d) I), II) and IV)

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Q43. Select the option that represents the number of squares in the following figure.



(a) 32
(b) 64
(c) 30
(d) 16

Q44. By selling a table for Rs. 16,870, a shopkeeper suffers a loss of Rs. 1,080. His loss percentage (rounded off to one decimal place) is:

(a) 6.1%
(b) 6.4%
(c) 6.2%
(d) 6.0%

Q45. Consider the given statement to be true and decide which of the given courses of action logically follow(s) from the statement.

Statement:

Many private schools in Bangalore charge more fees than the government-prescribed limits.

Course of Action:

1. Strict action should be taken against such schools.
2. Such schools should be shut down.

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

Q46. How many three digit whole numbers are there between 75 and 405?

(a) 307
(b) 304
(c) 305
(d) 306

Q47. The element with the highest electron affinity among halogens is _____.

(a) Cl
(b) F
(c) Br
(d) I

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Q48. The interest earned on Rs. 3,675 at the rate of 4% simple interest per annum for 2 years will be?

(a) Rs. 289.50
(b) Rs. 292
(c) Rs. 288.50
(d) Rs. 294

Q49. Consider the given statement to be true and decide which of the courses of action logically follow(s) from the statement.

Statement:

Teachers in India still teach using traditional methods and are not aware of modern methods of teaching.

Course of Action:

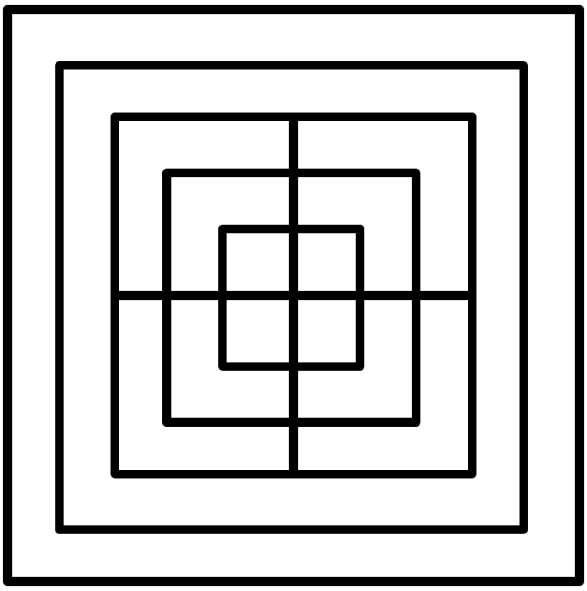
1. Orientation programs should be conducted for teachers to change their method of teaching.
2. There should be a pay hike for teachers who teach using modern methods.

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

Q50. What is the difference between the place value and face value of 3 in 273965?

(a) 2035
(b) 3962
(c) 0
(d) 2997

Q51. Select the option that represents the number of squares in the given figure.



(a) 13
(b) 15
(c) 14
(d) 17

Q52. Read the following question and decide which of the given statements is/are sufficient.

Are women emotionally stronger than men?

Statements:

1. Women think men's thinking cannot change any problem.
2. Women are equal to men in all issues.

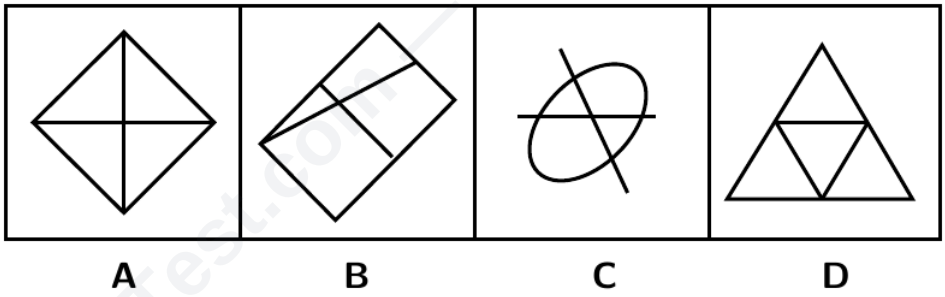
(a) Neither 1 nor 2 is sufficient to answer the question.

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

Q53. There are 15 protons and 22 neutrons in the nucleus of an element. What is its mass number?
(a) 15
(b) 37
(c) 22
(d) 7

Q54. Select the figure that does NOT belong in the following group.



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

Q55. A tendon is made up of _____.
(a) inelastic connective tissue fibres
(b) inelastic and elastic connective tissue fibres
(c) only collagen fibres
(d) elastic connective tissue fibres

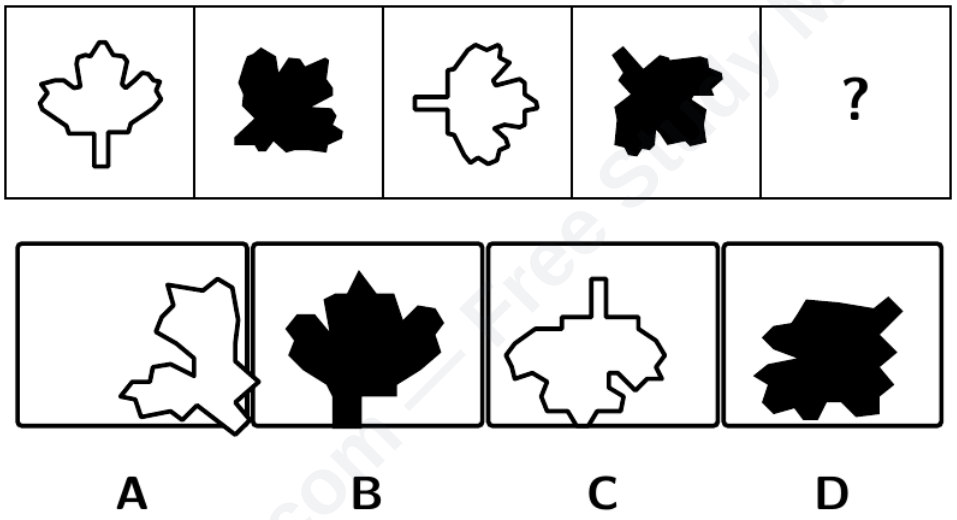
Q56. Consider the given statement to be true and decide which of the following assumptions is/are implicit.
Statement:
A leading school in Mumbai will increase its fees by 150% from the next academic year.
Assumptions:
1. Students may change school due to more fees.
2. The school may still have the same demand among the students.
(a) Only assumption 1 is implicit.
(b) Only assumption 2 is implicit.
(c) Both assumptions 1 and 2 are implicit.
(d) Either assumption 1 or 2 is implicit.

Q57. Which state organised India's first Tribal Entrepreneurship Summit in November 2017?
(a) Chhattisgarh
(b) Jharkhand
(c) Odisha
(d) West Bengal

Q58. Five angles of a hexagon measure 116° each. What is the measure of the remaining angle?
(a) 140°
(b) 126°
(c) 116°
(d) 152°

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Q59. Select the option that will come next in the following figure series.



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

Q60. A high jumper rims for a while before taking a high jump so that the inertia of _____ helps him take the long jump.
(a) direction
(b) rest
(c) motion
(d) shape

Q61. If the momentum of a body is tripled keeping the mass as constant, its Kinetic Energy will _____.
(a) remain the same
(b) become nine times its original value
(c) become six times its original value
(d) become three times its original value

Q62.

Stu/sub	P	C	B	M
W	70	90	50	85
X	55	80	95	60
Y	60	20	90	40
Z	90	80	40	65

The given table represents the marks obtained by four students W, X, Y and Z in four subjects P, C, B and M with the maximum in each subject being 100

Based on the given data. Find W's marks percentage in P, C and B combined together.

(a) 70
(b) 72
(c) 75
(d) 68

Q63. Roshan Lal, who won the Guru Dronacharya Award for 2017, is associated with which of the following streams of sport?
(a) Hockey
(b) Wrestling

(c) Volleyball
(d) Football

Q64. If the frequency of a sound wave of given velocity is increased, how will it affect its wavelength?
(a) Wavelength will keep increasing and decreasing alternately.
(b) The wavelength will not be affected.
(c) Its wavelength will increase.
(d) Its wavelength will decrease.

Q65. A right-angled triangle ABC is right-angled at B, and tan A = 4/3. If AC = 25 cm, the length of BC is:
(a) 24 cm
(b) 20 cm
(c) 18.75 cm
(d) 33.3 cm

Q66. Which of the following is NOT an example of potential energy?
(a) Water stored in a dam
(b) A raised hammer
(c) A compressed spring
(d) Running water

Q67. Consider the given statements to be true and decide which of the conclusions logically follow(s) from the given statements.
Statement:
All fruits are trees. Some trees are birds.
Conclusions:
1. Some birds are trees.
2. Some trees are fruits.
(a) Only conclusion 1 follows.
(b) Both conclusions 1 and 2 follow.
(c) Either conclusion 1 or 2 follows.
(d) Only conclusion 2 follows.

Q68. What is the process of production of ovum in the females called?
(a) Oogenesis
(b) Adolescence
(c) Menarche
(d) Menstruation

Q69. Who launched ‘Shramdaan movement’ as a part of Swachh Bharat and Swachh Puducherry initiative at Seliamedu village in Puducherry?
(a) Lt Governor Kiran Bedi
(b) Nitish Kumar
(c) Prakash Javdekar
(d) Rajiv Bansal

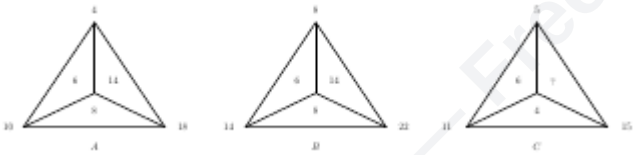
Q70. Select the missing word based on the given related pair of words.
Butter : Milk :: Book :_____
(a) Chapter
(b) Printing
(c) Paper
(d) Author

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Q71. Arzoo was born on 25^(th) January 2015, while Aastha was born 554 days later. On which date was Aastha born?

(a) 1^(st)August 2016
(b) 31^(st)July 2016
(c) 3^(rd)August 2016
(d) 2^(nd)August 2016

Q72. If 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) 8
(b) 6
(c) 14
(d) 10

Q73. Name the only US president who also served as the Chief Justice of the US Supreme Court.

(a) Lyndon B. Johnson
(b) William Howard Taft
(c) John Quincy Adams
(d) Zachary Taylor

Q74. What is the square root of 5041?

(a) 71
(b) 81
(c) 79
(d) 69

Q75. When a number of resistance are connected in _____, their combined resistance is less than the smallest individual resistance.

(a) horizontal
(b) box
(c) series
(d) parallel

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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