RRB ALP CBT I 21 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. Which of the following metals does NOT react with Oxygen even at a high temperature?

(a) Zinc
(b) Aluminium
(c) Silver
(d) Lead

Q2. Jeremy is 26 years younger than his father. Eight years hence his father's age will be two years less than twice his age. What is Jeremy's present age (in years)?

(a) 24
(b) 18
(c) 22
(d) 20

Q3. A watch shows 6 p.m. when the hour hand points east. In which direction is the minute hand facing when the time is 9:15 p.m.?

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

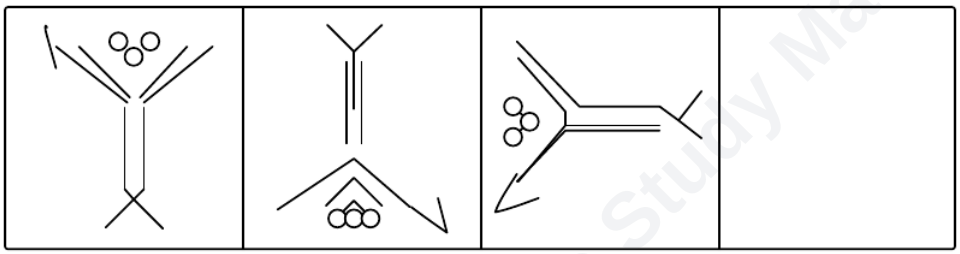
Q4. Thumba in Kerala is famous because _____.

(a) It is a rocket launching station.
(b) It has several tea gardens.
(c) It has backwaters and lagoons.
(d) It has an aryuvedic centre.

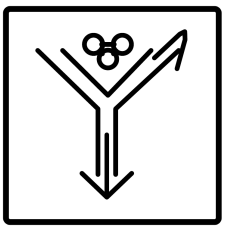
Q5. For dilution of a concentrated acid, we should add:

(a) Water into the diluted acid
(b) Water into the concentrated acid
(c) First water into the acid and then more acid into the water
(d) Concentrated acid into water

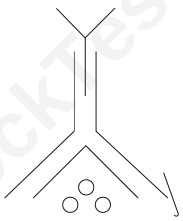
Q6. Select the option that can replace the question mark (?) in the Problem Figure.



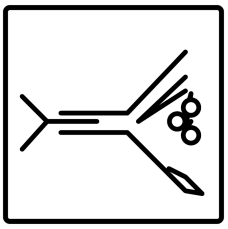
(a)



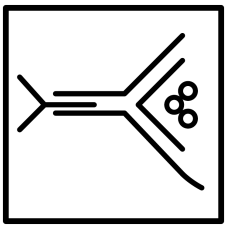
(b)



(c)



(d)



Q7. A charge of 2 C passes from one point to the other in a circuit. If the potential difference between the two points in 5 V, the amount of work done is:

(a) 10 J
(b) 0.4 J
(c) 2.5 J
(d) 5 J

Q8. The HCF of two numbers is 12 and their LCM is 72. If one of the two numbers is 24, then the other number is:

(a) 72
(b) 48
(c) 36
(d) 60

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Q9. Two identical resistors of 20 Ω each are connected in parallel. This combination, in turn, is connected in series to a 10 Ω resistor. The equivalent resistance of the combination will be:

(a) 20 Ω
(b) 5 Ω
(c) 30 Ω
(d) 10 Ω

Q10. _____ is the process in which acids, bases react to form salts and water.

(a) Hydrolysis
(b) Electrolysis
(c) Neutralisation
(d) Distillation

Q11. Fill in the blank with the most appropriate option.

Ethanol is denatured to _____.

(a) Make it unsuitable for drinking
(b) Make it suitable as an antiseptic
(c) Make it suitable for drinking
(d) Increase its stability

Q12. Which of the following pairs in NOT a pair of twin primes?

(a) 131, 133
(b) 191, 193
(c) 71, 73
(d) 11, 13

Q13. A train travelling at the speed of 66 km/h crosses a 300 m long platform in 24 seconds. How long was the train?

(a) 160 m
(b) 240 m
(c) 140 m
(d) 180 m

Q14. Consider the given argument and decide which of the given assumptions is (are) implicit.

Argument:

The government had put advertisements and issued advisories to the public not to eat food from the roadside, as they are unhygienic.

Assumptions:

1. The government wants to stop roadside vendors business.
2. The government wants to increase the profit of hotel owners.

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

Q15. Which of the following is a bisexual flower?

(a) Mustard
(b) Papaya
(c) Cucumber
(d) Watermelon

Q16. A well of diameter 3m and depth 14 m is dug. The earth, taken out of it, has been evenly spread all around it in the shape of a circular ring of width 4m to form an embankment. Find the height of embankment.

(a) 9/8
(b) 7/8

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(c) 4/8
(d) 1/8

Q17. Atomic mass of Sulphur is 32 u. The number of moles in 16 grams of Sulphur is:
(a) 0.5 moles of Sulphur
(b) 0.25 moles of Sulphur
(c) 0.75 moles of Sulphur
(d) 1 mole of Sulphur

Q18. What does the symbol R in electricity stand for?
(a) Refraction
(b) Resonance
(c) Rarefaction
(d) Resistance

Q19. An object is placed at the centre of curvature of a concave mirror. Its image is formed at:
(a) The focus
(b) A point beyond centre of curvature
(c) The centre of curvature
(d) A point between focus and centre of curvature

Q20. A particle experiences constant acceleration for 20 s after starting from rest. If it travels a distance X1, in the first 10 s and distance X2 in the remaining 10 s, then which of the following is true?
(a) X1 = 3 X2
(b) X2 = 3 X1
(c) X2= X1
(d) X2 = 2 X1

Q21. Select the pair that does NOT belong in the following group.
(√64,9), (√81,10), (√36,8), (√121,12)
(a) (√64,9)
(b) (√81,10)
(c) (√121,12)
(d) (√36,8)

Q22. Who is the author of the Indian English Novel ‘No Other World’ published in 2017?
(a) Rahul Mehta
(b) Amish Tripathi
(c) Nidhi Chanani
(d) Chetan Bhagat

Q23. Which country hosted the 2016 Summer Paralympics, a major sporting event for athletes with disabilities?
(a) Russia
(b) China
(c) Brazil
(d) Korea

Q24. Find the LCM of 34, 51 and 68.
(a) 204
(b) 136
(c) 102
(d) 238

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Q25. Which of the following numbers is a prime number?

(a) 181
(b) 161
(c) 121
(d) 141

Q26. _____ found in blood, is responsible for oxygen transportation.

(a) WBC
(b) RBC
(c) Plasma
(d) Platelets

Q27. Which group in the modern periodic table contains elements that are inert gases?

(a) Group 18
(b) Group 17
(c) Group 15
(d) Group 16

Q28. The energy released at the end of digestion is in the form of:

(a) Kinetic energy
(b) Thermal energy
(c) Chemical energy
(d) Electric energy

Q29. What would be the smaller of the two angles formed by the hour hand and the minute hand at 3:47 p.m.?

(a) 168.5°
(b) 166.5°
(c) 165°
(d) 162°

Q30. In 2017, which celebrity was appointed as the Goodwill Ambassador of the United Nations in India to amplify awareness about the Sustainable Development Goals (SDGs)?

(a) Kabir Bedi
(b) Ashok Amritraj
(c) Priyanka Chopra
(d) Manushi Chhillar

Q31. If $\sin x + \cos x = \sqrt{2}\sin x$, then the value of $\tan x$ is:

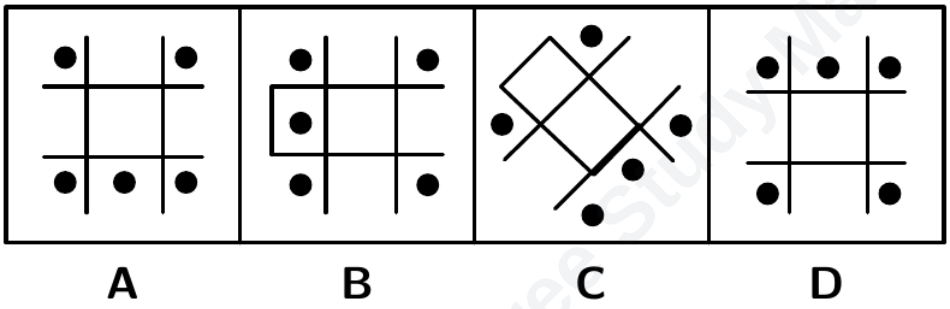
(a) $\sqrt{2} + 1$
(b) 1
(c) $\sqrt{2}$
(d) $\sqrt{2} - 1$

Q32. Pointing to a boy in a photograph, Neena said, “He is the son of my grandmother’s only daughter”. How is Neena related to the boy?

(a) Sister
(b) Aunt
(c) Mother
(d) Grandmother

Q33. Select the figure that does NOT belong in the following group.

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

Q34. Which among the following is different?

Super Tackle, Raider, Bowler, Defender

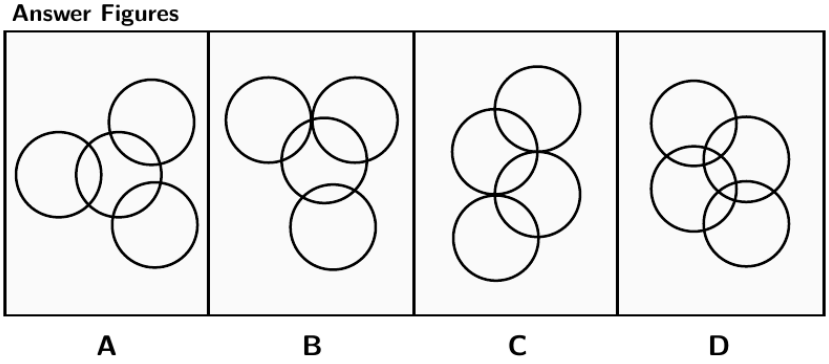
(a) Super Tackle
(b) Defender
(c) Raider
(d) Bowler

Q35. The given Problem Figure is embedded in one of the given Answer Figures. Which is that Answer Figure?

Problem Figure



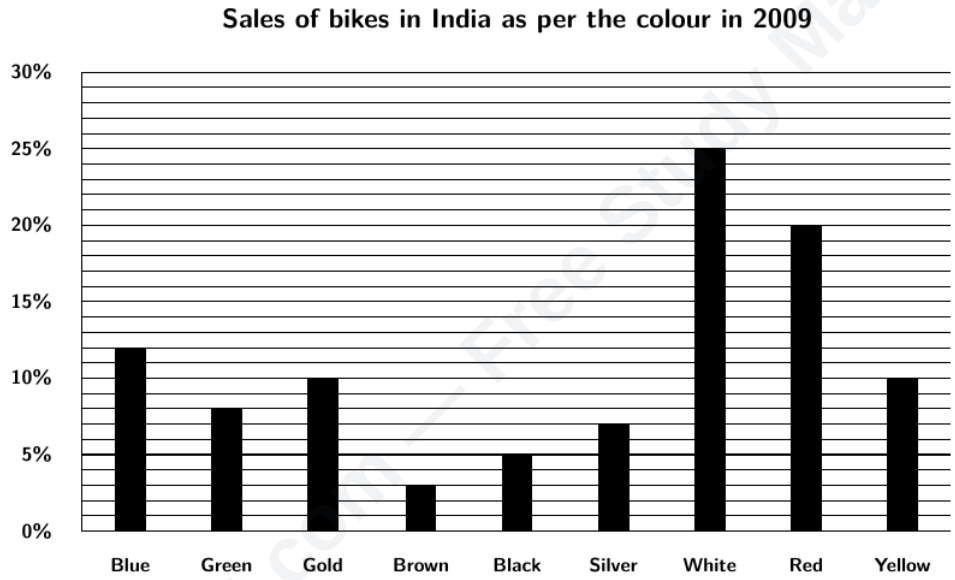
Answer Figures



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

Directions

Direction: A bar graph is given below, study the graph carefully and answer the following question.



Q36. If the total number of bikes sold in 2009 was 15000, how many more red bikes were sold than black ones?

(a) 3,000
(b) 750
(c) 2,250
(d) 2,300

Q37. If Rs. 2,000 is invested at the rate of 20% per annum, compounded half yearly, then find the amount after 18 months.

(a) Rs. 2,662
(b) Rs. 3,200
(c) Rs. 2,628
(d) Rs. 2,600

Q38. A person driving at the speed of 45 km/h reaches office 1 minute early while she reaches 3 minutes late if driving at 40 km/hr. What is the distance (in km) that she is covering?

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

Q39. Select the correct option that will complete the given number series.

13, 10, 7, 4, _____

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

Directions

Direction: The below table gives the details of the number of students in Class 10, section A and B who had taken mid-term and final exam. Study the table carefully and answer the following question.

Result	Section A	Section B
Total number of students who failed in both exams.	28	23
Total number of students who failed in mid-term but passed in finals.	14	12

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Total number of students who passed in mid-term but failed in finals.	6	17
Total number of students who passed in both the exams.	64	55

Q40. What is the total number of students in both, section A and B?

(a) 292
(b) 291
(c) 219
(d) 221

Q41. How much does one need to add to 4/5 to obtain 5/4?

(a) 16/20
(b) 1.25/0.8
(c) -1
(d) 9/20

Q42. 56% of 250 is:

(a) 112
(b) 84
(c) 140
(d) 56

Q43. From the top of a platform 5 m high, the angle of elevation of a tower was 30°. If the tower was 45 m high, how far away from the tower was the platform positioned?

(a) 45√3m
(b) 15√3m
(c) 40√3m
(d) 40 m

Q44. Which of the following animal is not triploblastic?

(a) Earthworm
(b) Jelly fish
(c) Ascaris
(d) Planaria

Q45. A girl introduces a man as the son of her grandfather and the brother of her maternal aunt. How is the man related to the girl?

(a) Brother
(b) Father
(c) Nephew
(d) Uncle

Q46. Which of the following is a correct pair according to increasing atomic number from left to right?

(a) He, H
(b) Na, Ne
(c) Be, B
(d) Ca, Cl

Q47. The angle of elevation of the top of a 36 m tall tower from the initial position of a person on the ground was 60°. She walked away in a manner that the foot of the tower, her initial position and the final position were all in the same straight line. The angle of elevation of the top of the tower from her final position was 30°. How much did she walk from her initial position?

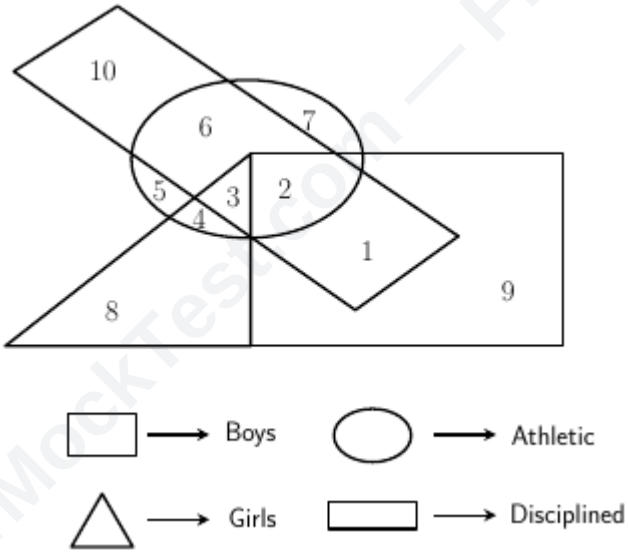
(a) 24 m
(b) 24√3 m

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(c) 12√3 m
(d) 36√3 m

Q48. How many molecules are present in one mole of water?
(a) 6.02 × 10^(26) molecules
(b) 7.02 × 10^{23} molecules
(c) 8.02 × 10^{22} molecules
(d) 6.02 × 10^{23} molecules

Q49. According to the given Venn diagram, the total number of students in the class is _____.



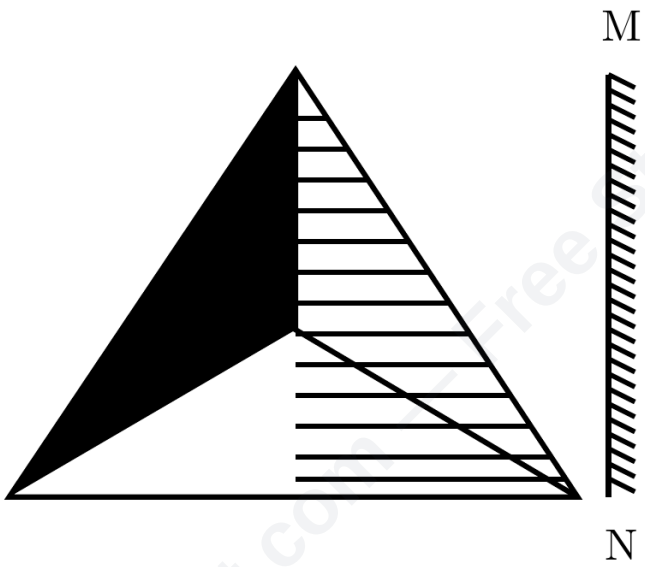
(a) 53
(b) 55
(c) 54
(d) 56

Q50. Consider the given argument and decide which of the given assumptions in (are) implicit.
Argument:
A top television company announced up to 50% discount on their new launch of LED TV.
Assumptions:
1. The sales of LED TV may increase.
2. The company will become the top seller of LED TV.
(a) Only assumption 1 is implicit.
(b) Only assumption 2 is implicit.
(c) Both 1 and 2 are implicit.
(d) Neither 1 nor 2 is implicit.

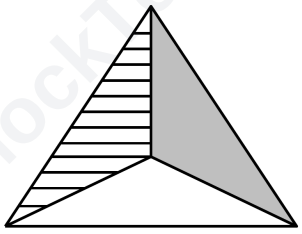
Q51. The Grande Croix Commandeur in National Merit Order – the highest civilian honor of Ivory Coast, Africa – was recently conferred on which Indian?
(a) Gopalkrishna Gandhi
(b) Narendra Modi
(c) Manmohan Singh
(d) Pranab Mukherjee

Q52. Select the option that depicts the correct mirror image of the given figure when the mirror is held at the MN line shown.

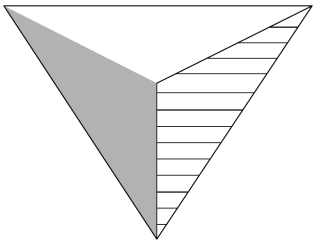
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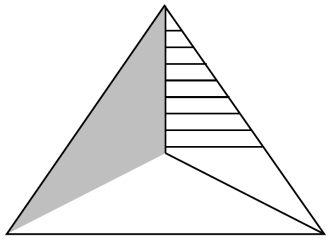
(a)



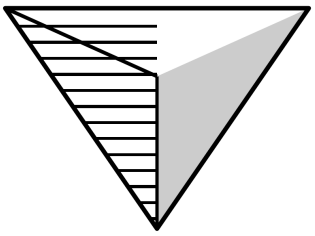
(b)



(c)



(d)



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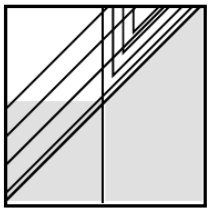
Q53. In the given sequence, the number of letters preceded by a symbol and followed by a number is _____.

$M@A#N2B4O&3C5P+D2

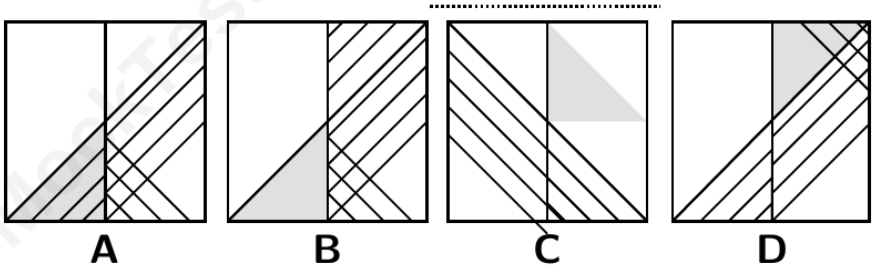
(a) 1
(b) 4
(c) 3
(d) 2

Q54. Choose the correct water image of the problem figure.

Problem Figure



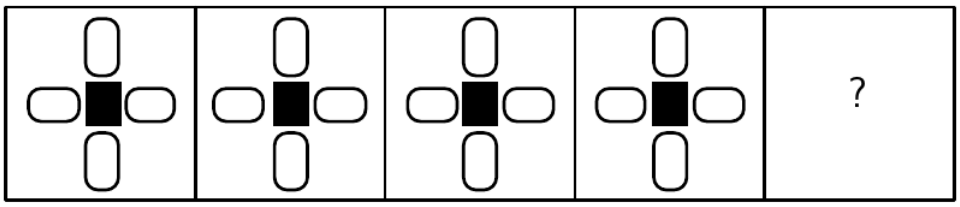
Answer Figures



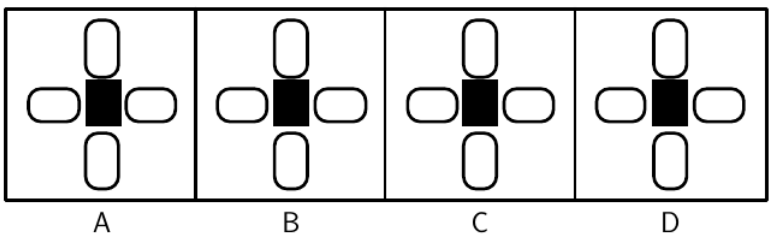
(a) C
(b) D
(c) B
(d) A

Q55. Select the Answer Figure that can replace '?' in the Problem Figure.

Problem Figures



Answer Figures



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

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Q56. If secθ + tanθ = 2, then secθ – tanθ = ?

(a) 1.5
(b) 1
(c) 0.5
(d) 0.75

Q57. What is the square root of 9409?

(a) 97
(b) 83
(c) 89
(d) 87

Q58. Tom's father is thrice as old as Tom. 10 years ago, The age of Tom's father was 7 times his age. What is Tom's current age?

(a) 14 years
(b) 15 years
(c) 16 years
(d) 17 years

Q59. Who won the Economic Times (ET) Lifetime Achievement award in 2017?

(a) Y.C. Deveshwar
(b) Lakshmi Mittal
(c) Sunil Mittal
(d) BrijmohanLall Munjal

Q60. Name the organ where the embryo develops:

(a) Ureter
(b) Fallopian tube
(c) Uterus
(d) Cervix

Q61. ESPN annually ranks 100 of the most famous active sportspersons in the world to create the 'ESPN World Fame 100' list. Which Indian player had the highest ranking in this list in 2017?

(a) Viswanathan Anand
(b) Virat Kohli
(c) MS Dhoni
(d) Sania Mirza

Q62. Which union minister from the Lok Jana Shakti Party belongs to PM Narendra Modi's Cabinet?

(a) J.P. Nadda
(b) Radha Mohan Singh
(c) Ram Vilas Paswan
(d) Ravi Shankar Prasad

Q63. Who wrote the book 'An Era of Darkness: The British Empire' which extensively narrates the grim realities of colonial India?

(a) V.S. Naipaul
(b) Chetan Bhagat
(c) Shashi Tharoor
(d) Salman Rushdie

Q64. One of the earliest explorers who visited India was Megasthenes. Which country did he hail from?

(a) Egypt
(b) Spain
(c) Greece

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(d) Italy

Q65. Consider the given argument and decide which of the given assumptions is (are) implicit.

Argument:

The year 2020 is a leap year.

Assumptions:

1. February will have 29 days in 2020.
2. The year 2017 is not a leap year.

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

Q66. 15% of a number, when added to 30% of another, gives 24% of the sum of the two numbers. The bigger number is 4 more than the smaller one. What are the numbers?

(a) 10, 14
(b) 12, 16
(c) 8, 12
(d) 6, 10

Q67. 84% of a number is 105. The number is:

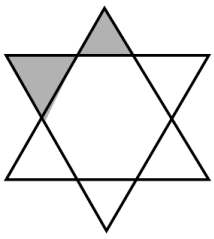
(a) 112
(b) 125
(c) 120
(d) 115

Q68. Which of the following physical quantities changes or tends to change the state of rest or of uniform motion of a body in a straight line?

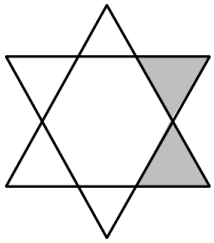
(a) Force
(b) Mass
(c) Momentum
(d) Inertia

Q69. Find the odd figure:

(a)

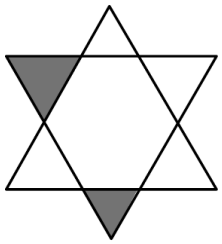


(b)

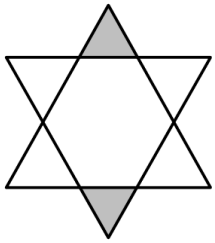


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(c)



(d)



Directions

Direction: Study the given data and answer the question that follows.

Rice production (In Crore Tonnes)					
Countries	2001	2002	2003	2004	2005
India	9	10.7	8.9	11.6	8.4
Bhutan	14.5	16.3	16.2	16.4	16.8
Srilanka	14.9	15.7	16.8	16.9	17.8
China	7.6	8.4	7.4	7.9	8.6
Japan	21	22.6	23.2	22.2	23.9

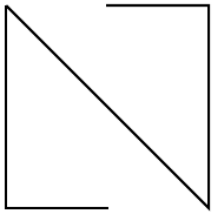
Q70. In which year did Bhutan's rice production decrease for the first time?

(a) 2004
(b) 2005
(c) 2003
(d) 2002

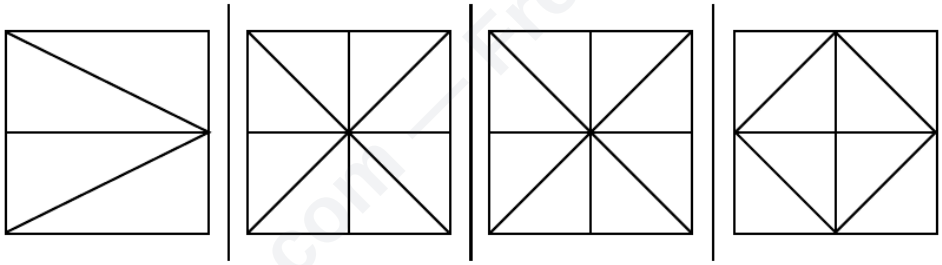
Q71. The given Problem Figure is embedded in one of the given Answer Figures. Which is that Answer Figure?

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Problem Figure



Answer Figures



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

Q72. Ms. X's husband is the only son of Ms. Y's mother. If Ms. X's brother and Ms. Y's husband are cousins, then Ms. X is Ms. Y's _____.

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

Q73. Which of the options depicts the correct mirror image of the following figure?



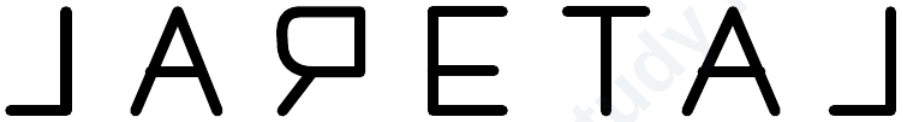
(a)



(b)



(c)



(d)

J A R 3 T A L

Q74. Consider the given statement true and decide which of the given conclusion(s) logically follow(s) from the statement.

Statement:

Arise, awake and stop not until the goal is reached.

Conclusions:

1. A human being has to get out of his state of helplessness.
2. No individual is weak.

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

Q75. Which of the following has the same unit as energy?

(a) Force
(b) Work
(c) Density
(d) Power

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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