RRB ALP CBT I 10 Aug 2018 Shift 1 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)

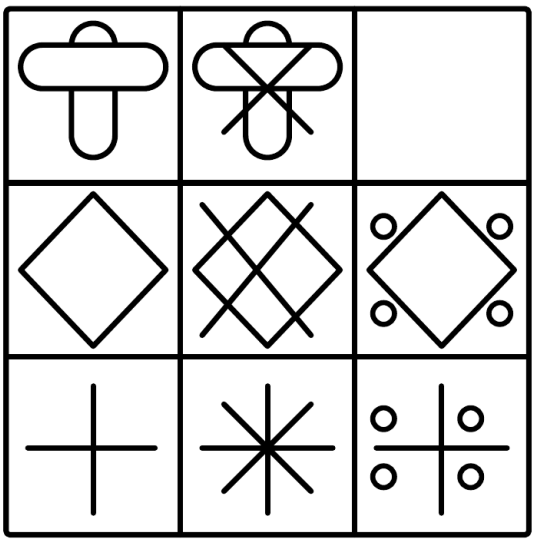
Q1. Present ages of Sai and Satheesh are in the ratio of 5 : 4 respectively. After Three years, the ratio of their ages will become 11 : 9 respectively. What is Satheesh's present age in years?

(a) 22
(b) 23
(c) 21
(d) 24

Q2. The sum of two fractions is 5/6. One of them is 3/4. What is the other fraction?

(a) 2/5
(b) 1/10
(c) 2/2
(d) 1/12

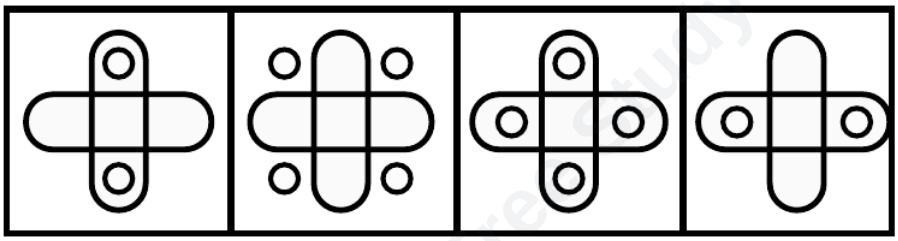
Q3. Select the Answer Figure that fits in the blank space in the given Problem Figure.



Problem Figure:

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Answer Figures:



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

Q4. Decide which of the conclusions logically follow(s) from the information given in the statement.

Statements:

Poverty is increasing because politicians don't understand poverty, nor do they know anything about the problems faced by the poor.

Conclusions:

1. All politicians should be replaced.
2. All politicians should be asked to live in poor conditions.

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

Q5. In the given series, how many 8s are there that are not divisible by the number to its left but completely divisible by the number to its right.

5 6 3 2 4 8 8 8 9 2 6 6 5 8 8 3 4 3

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

Q6. The pH of a solution is 3. When its pH changes to 6, then H^+ ion concentration:

(a) Increases 2 times
(b) Increases three times
(c) Decreases 100 times
(d) Decreases 1000 times

Q7. If a person bought an item for Rs. 60 and sold it at a profit of 25%, the selling price of the item would be:

(a) Rs. 72
(b) Rs. 84
(c) Rs. 75
(d) Rs. 80

Q8. The kinetic energy of a ball weighing 0.5 kg moving with a velocity of 4 m/s will be:

(a) 12 J
(b) 8 J
(c) 4 J
(d) 16 J

Q9. _____, a Muslim saint, lived at the place where Fatehpur Sikri was built.

(a) Nizamuddin Auliya
(b) Nasiruddin Chiragh Dehlavi
(c) Baba Fakruddin
(d) Sheikh Salim Chisti

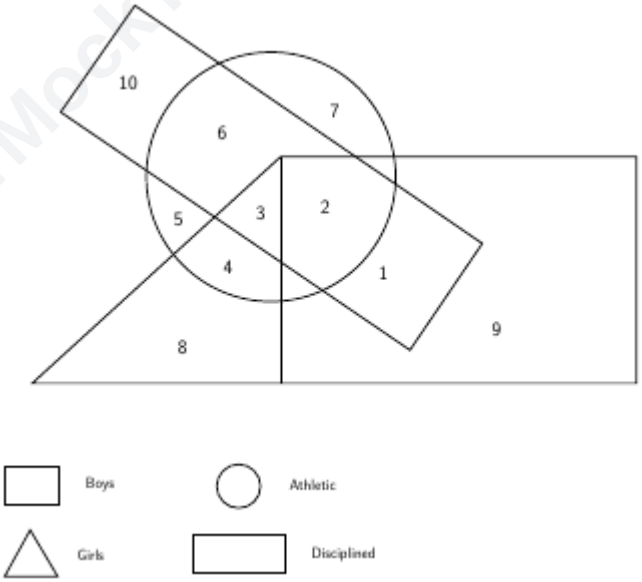
Q10. Krish is 5 years younger than Parthiv. Eight years ago, three times the age of Krish was 10 more than twice the age of Parthiv. Find Krish's present age.

(a) 30 years
(b) 32 years
(c) 28 years
(d) 33 years

Q11. The product of two decimals is 0.768. If one of the decimal number is 1.6, find the other.

(a) 0.48
(b) 0.47
(c) 0.42
(d) 0.37

Q12. In the Venn diagram below, what is the sum of the numbers that represent all those athletes who are not disciplined?



(a) 13
(b) 16
(c) 11
(d) 17

Q13. Samarth heading towards north walked 10 m, he turns right and walks for 4 metres and then he turns left and walks 6 m. In which direction he is walking at last?

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

Q14. A shuttle cock used for playing badminton has the shape of a frustum of a cone mounted on a hemisphere. The two diameters of the frustum are 5 cm and 2 cm, the height of the entire shuttle cock is 7 cm. Find the external surface area.

(a) 84.30 cm^2
(b) 80 cm^2
(c) 74.29 cm^2

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(d) 63.38 cm²

Q15. Samarth walks 10 kms towards east, then takes a right turn and walks 8 kms and again takes a left and walks 6 kms. In which direction is Samarth with respect to his starting position?

(a) North west
(b) North east
(c) South west
(d) South east

Q16. Which of the following numbers is a perfect square?

(a) 441
(b) 327
(c) 192
(d) 333

Q17. Who was the flag bearer for India at the 2016 Rio Olympics?

(a) Sakshi Malik
(b) Abhinav Bindra
(c) Saina Nehwal
(d) P.V. Sindhu

Q18. How many atoms are present in one molecule of Ozone?

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

Q19. Consider the given statement as true and decide which of the given conclusions can definitely be drawn from the given statements.

Statements:

Some actors are businessmen.

All businessmen are intelligent.

Conclusions:

1. All actors are intelligent

2. All businessmen are actors.

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

Q20. Atomic mass of Carbon is 12 and that of Helium is 4. State which of the following statements is true for 1 mole of each of the elements?

(a) 1 mole of Carbon will contain 3 times more atoms than 1 mole of Helium.
(b) 1 mole of Helium will contain 3 times more atoms than 1 mole of Carbon.
(c) 1 mole of Carbon will contain one-third the number of atoms present in 1 mole of Helium.
(d) 1 mole of Carbon will contain the same number of atoms as present in 1 mole of Helium.

Q21. Indian athlete Neeraj Chopra created history by becoming the first Indian to get silver in a world athletics championship. What was his sport?

(a) Discus throw
(b) Javelin throw
(c) Long jump
(d) Shot put

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Q22. Except Helium, all noble gases have how many electrons in the outermost shell?

(a) 10
(b) 6
(c) 4
(d) 8

Q23. Which of the following is present in the centre of a flower?

(a) Petals
(b) Sepals
(c) Carpel
(d) Stamen

Q24. A 150 m long train, travelling at 54 km/h, crosses a platform in 42 seconds. What is the length of the platform?

(a) 540 m
(b) 630 m
(c) 780 m
(d) 480 m

Q25. The metal that can be cut with a knife is _____.

(a) Copper
(b) Aluminium
(c) Iron
(d) Sodium

Q26. In which of the flowering plants are buds produced in the notches along the leaf margin?

(a) Bryophyta
(b) Bryophyllum
(c) Banana
(d) Rose

Q27. Select the missing word from the given related pair of words.

Ancient : Old ? Bedspread : _____

(a) Comforter
(b) Berth
(c) Pillow
(d) Couch

Q28. The molecular formula of Propane is _____.

(a) CH4
(b) C4H10
(c) C3H8
(d) C2H6

Q29. The science fiction book ‘The Extra-Terrestrial Delivery’ is penned by which Indian author?

(a) Sudipta Das
(b) Namitha Ghokhale
(c) Anosh Irani
(d) Samit Basu

Q30. Which major bank has launched the ‘Unnati Credit Card’ in 2017 to enhance credit inclusion in India?

(a) SBI
(b) ICICI Bank
(c) Axis Bank
(d) HDFC Bank

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Q31. Which is the form of energy that does NOT occur while riding a bicycle?

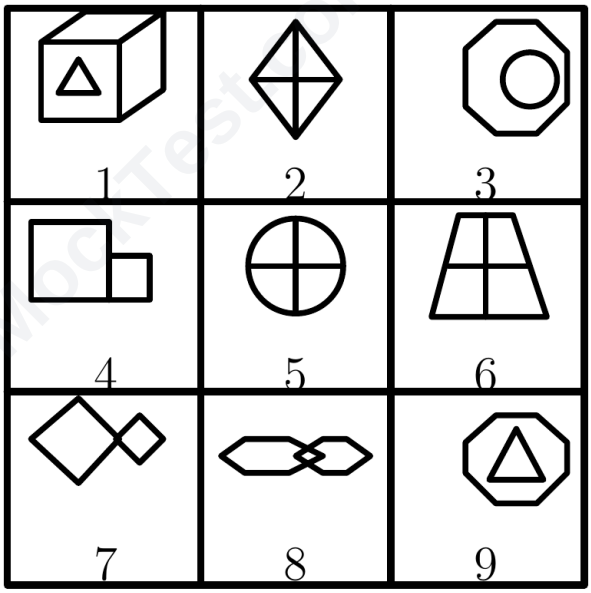
(a) Chemical energy
(b) Heat energy
(c) Mechanical energy
(d) Kinetic energy

Q32. Choose the correct analogous word pair from the given alternatives.

People : Person

(a) Nucleus : Nuclei
(b) Radius : Radii
(c) Cacti : Cactus
(d) Fungus : Fungi

Q33. Use each of the below figures only once and form three groups. The three groups so formed are:



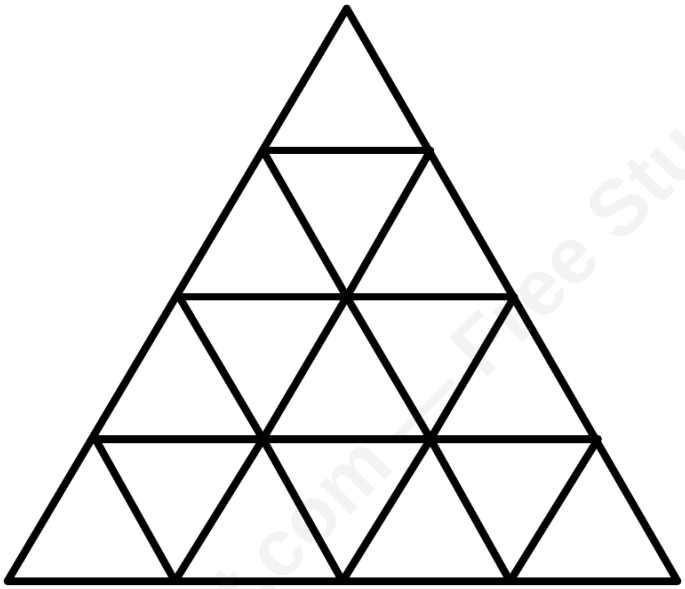
(a) (1, 5, 9), (2, 3, 6), (4, 7, 8)
(b) (1, 3, 8), (2, 5, 6), (4, 7, 9)
(c) (1, 3, 9), (2, 5, 6), (4, 7, 8)
(d) (1, 3, 6), (2, 5, 9), (4, 7, 8)

Q34. Find the value of (122 + 345 – 1 × 1011 ÷ 337).

(a) 644
(b) 460
(c) 446
(d) 464

Q35. The minimum number of straight lines required to construct the given figure is _____.

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(a) 12
(b) 11
(c) 9
(d) 10

Q36. Which of the following regions has the highest potential for wind energy?
(a) Western Ghats
(b) Gangetic planes
(c) The Himalayas
(d) The Deccan Plateau

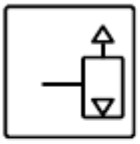
Q37. Consider the given argument and decide which of the given assumptions is (are) implicit.
Argument:
Y advised X that if he/she wants to study Management, he/she should join IIM
Assumptions:
1. IIM provides good Management education
2. X listens to the advice given by Y.
(a) Neither 1 nor 2 is implicit.
(b) Only assumption 2 is implicit.
(c) Only assumption 1 is implicit.
(d) Both 1 and 2 are implicit.

Q38. Which famous film actress and celebrity won the PETA 'Person of the Year' award in 2017?
(a) Priyanka Chopra
(b) Alia Bhatt
(c) Deepika Padukone
(d) Anushka Sharma

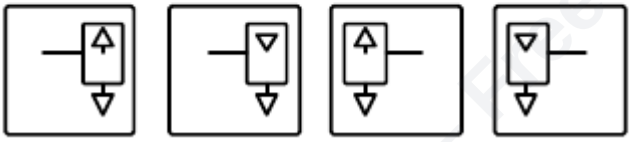
Q39. Which of the answer figures is the correct water image of the given problem figure?

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Problem Figure



Answer Figures



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

Q40. 'Freedom Trail' is a 2.5-mile-long passage that offers a rich insight into the American Revolution. In which US city would you find this famous and historic trail?

(a) Boston
(b) Memphis
(c) Denver
(d) Connecticut

Q41. Who took charge as the new Comptroller and Auditor General (CAG) of India in 2017?

(a) Rajiv Mehrishi
(b) Ranjit Kumar
(c) Achal Kumar Jyothi
(d) Vivek Goenka

Q42. Consider the given question and decide which of the following statements is sufficient to answer the question.

Which of the natural numbers A, B, C, D and E are odd numbers?

Statements :

1. A, B, C, D and E are natural numbers.
2. B is a prime number.

(a) Both 1 and 2 are sufficient to answer the given question.
(b) Neither 1 nor 2 is sufficient to answer the given question.
(c) 1 alone is sufficient while 2 alone is not sufficient to answer the given question.
(d) 2 alone is sufficient while 1 alone is not sufficient to answer the given question.

Q43. Select the WRONG number from the given series.

6, 12, 20, 32, 42, 56, 72

(a) 20
(b) 72
(c) 32
(d) 56

Q44. Name the Indian entrepreneur, co-founder and owner of India's low cost airline SpiceJet.

(a) Rattan Tata
(b) Vijay Mallya
(c) Ajay Singh
(d) Captain G.R. Gopinath

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Q45. Which one of the following derives nutrition from plants as a parasite?

(a) Malaria Parasite
(b) Bryophyllum
(c) Lice
(d) Cuscuta

Directions

Direction: Study the table given below carefully and answer the following question.

Year	Items of Expenditure			
Salary	Food	Medicine	Tax	
2001	Rs. 1,500	Rs. 200	Rs. 500	Rs. 100
2002	Rs. 2,600	Rs. 300	Rs. 600	Rs. 200
2003	Rs. 3,200	Rs. 150	Rs. 700	Rs. 150
2004	Rs. 4,100	Rs. 250	Rs. 650	Rs. 125
2005	Rs. 5,000	Rs. 200	Rs. 800	Rs. 150
2006	Rs. 5,200	Rs. 100	Rs. 750	Rs. 175

Q46. The average salary per year during period 2001 – 2006 is:

(a) 3,400
(b) 3,600
(c) 3,500
(d) 3,800

Q47. The selling price of an item inclusive of a 10% profit was Rs. 440. What would be the percentage loss if the item was sold for Rs. 370?

(a) 7.5
(b) 8
(c) 6.25
(d) 8.4

Q48. In a 900 metres race, Sathish beats Kiran by 270 metres and Rahul by 340 metres. By how many metres does Kiran beat Rahul in the same race?

(a) 70
(b) 100
(c) 20
(d) 140

Q49. _____ reproduces by multiple fission.

(a) Yeast
(b) Plasmodium
(c) Planaria
(d) Rhizopus

Q50. If $2\sec^2 x - \tan^2 x = 5$ and $0° \le x \le 90°$, then x = ?

(a) 45°
(b) 60°
(c) 30°
(d) 90°

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Q51. Veer spends 15% of his monthly income on the house rent and 60% of the rest on household expenditure. If he saves Rs. 2210, what is his monthly income?

(a) Rs. 6500
(b) Rs. 7500
(c) Rs. 8000
(d) Rs. 7000

Q52. When a ray of light travels from a denser medium to a rarer medium, it bends _____.

(a) Towards the normal and slows down
(b) Away from the normal and slow down
(c) Towards the normal and speeds up
(d) Away from the normal and speeds up

Q53. Find the fraction which is as much greater than 4/7 as it is less than 5/6.

(a) 59/84
(b) 84/59
(c) 58/84
(d) 59/85

Q54. Which is the political party started by Telugu film actor Chiranjeevi, who later merged it with the Indian National Congress?

(a) Andhra Pride Party
(b) Telugu Desam Party
(c) Praja Rajyam Party
(d) Nava Nirman Party

Q55. Sound travels at a speed of 333 ms^(-1) in the air; thus, in 1s, a distance of 333 m is travelled by _____.

(a) Receiver
(b) Particles
(c) Source
(d) Disturbance

Q56. Solve the following:

(-4) {19 – (-2) × (-8)} = ?

(a) 140
(b) -140
(c) -12
(d) 12

Directions

Direction: Study the table given below carefully and answer the following question.

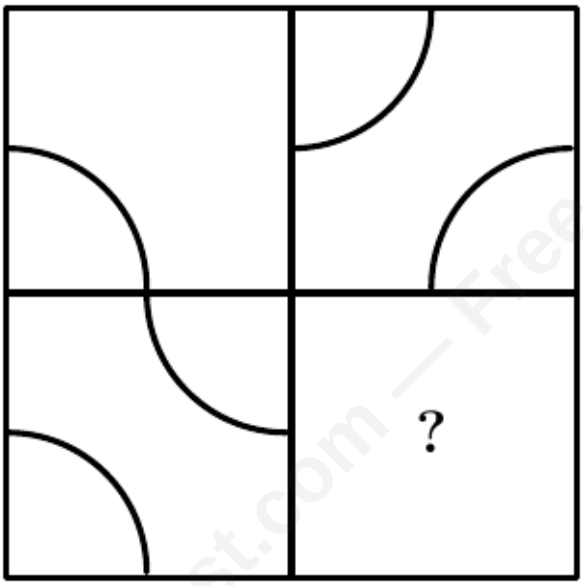
City	Population	Literate	Illiterate	%of literates
A	200	150	50	•
B	•	200	100	66.6
C	150	50	100	•
D	120	•	90	25

Q57. Based on the given data, the percentage of literates in City C is _____ (round to one decimal).

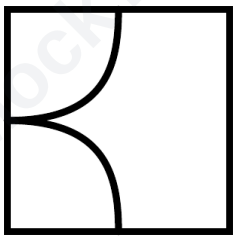
(a) 34.5
(b) 33.3
(c) 33.4
(d) 32.3

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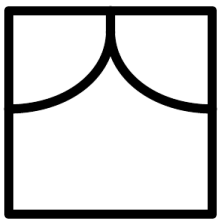
Q58. Select the option that fits in the blank space in the given Problem Figure.



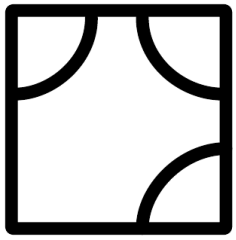
(a)



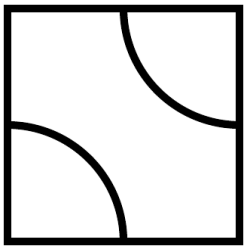
(b)



(c)



(d)



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Q59. Select the odd character out of the following series.

€	**¥**	**$**	**A**

(a) $
(b) ¥
(c) €
(d) A

Q60. Consider the given statement and decide which of the given assumption(s) is (are) implicit

Statement:

The train fares have increased by 20% with immediate effect.

Assumptions:

I. People still prefer travelling by train despite the increase.

II. Other modes of commutation may also increase their fares.

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

Q61. What is the mean of the first five triangular numbers?

(a) 7
(b) 5
(c) 8
(d) 6

Q62. The tendency of undisturbed objects to stay at rest or to keep moving with the same velocity is called _____.

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

Q63. Deepti bought a set of cups for Rs. 175, but then had to sell it later to clear old stocks for Rs. 161. What is the percentage of loss that she had to incur?

(a) 16%
(b) 8%
(c) 7%
(d) 14%

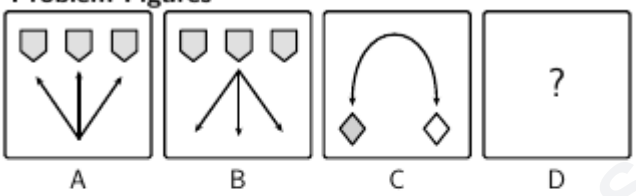
Q64. When a compressed slinky is released it converts potential energy into _____.

(a) Mechanical energy
(b) Kinetic energy
(c) Heat energy
(d) Chemical energy

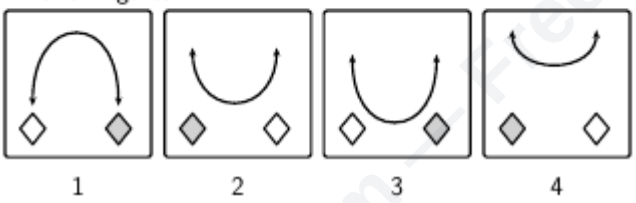
Q65. Choose the correct figure to replace the question mark.

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Problem Figures



Answer Figures



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

Q66. Consider the given question and decide which of the following statements is sufficient to answer the question.
The trains are very punctual in Malaysia. For a maximum of how long should Mr. Z wait for the train?
Statements:
1. Mr. Z had reached the railways station at 10 am
2. There is a train at 11 am and the next train is at 12 pm

(a) Both statement 1 and 2 are sufficient.
(b) Statement 2 alone is sufficient while 1 alone is insufficient.
(c) Either statement 1 or 2 is sufficient.
(d) Statement 1 alone is sufficient while statement 2 alone is insufficient.

Q67. If $\text{cosec}\theta + \cot\theta = 2$, then $\cot\theta = ?$

(a) 0
(b) 1
(c) 0.75
(d) 0.5

Q68. In the following series, one term is missing as shown by the question mark(?). Select the missing term from the given options.
A, BC, DEF, GHIJ, ?

(a) XYZA
(b) PQRS
(c) KLMNO
(d) TUVW

Q69. Which of the following gases is used to prevent food material from getting oxidised?

(a) Hydrogen
(b) Oxygen
(c) Chlorine
(d) Nitrogen

Q70. What will be the acute angle between the hour-hand and the minute-hand at 4:37 p.m.?

(a) 18.5°
(b) 83.5°
(c) 6.5°
(d) 18°

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Q71. The product of two numbers is 0.432. One of the numbers is 1.6. What is the other number?

(a) 2.7
(b) 0.027
(c) 0.27
(d) 27

Q72. A Lawn roller makes 20 revolutions in one hour. The radians it runs through 25 minutes is:

(a) 150π/7
(b) 250π/3
(c) 50π/3
(d) 50π/7

Q73. According to Ohm's law, if current (I) increases and potential difference (V) remains constant, then:

(a) Resistance unchanged
(b) Resistance increases
(c) Potential difference decreases
(d) Resistance decreases

Q74. Select the related word from the given alternatives:

Examination : Success ? Matches : _____

(a) Prepare
(b) Cricket
(c) Victory
(d) Attempt

Q75. Among chemical properties, Mendeleev concentrated on the compounds formed by the elements with _____.

(a) Carbon and Hydrogen
(b) Carbon and Sodium
(c) Hydrogen and Sodium
(d) Hydrogen and Oxygen

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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