RRB ALP CBT I 9 Aug 2018 Shift 3 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. The maximum number of electrons that can be accommodated in M shell is:

(a) 8
(b) 2
(c) 18
(d) 32

Q2. $M@A#N2B4O&3C5P + D2

Using the above sequence find the characters that do NOT belong to the group:

AO +, MB5, N32, $2P

(a) N32
(b) AO +
(c) $2P
(d) MB5

Q3. The sum of the present ages of two cousins is 46 years. Eight years ago, the elder one was twice as old as the younger one. What is the present age of the elder cousin?

(a) 22 years
(b) 30 years
(c) 28 years
(d) 26 years

Q4. To dispose of the old stocks, a person sold a tea-set for Rs. 3,420, which was 43% below the cost price. In order to make a profit of 10% the seller should have sold the set for Rs. _____.

(a) Rs. 6,180
(b) Rs. 6,580
(c) Rs. 6,680
(d) Rs. 6,600

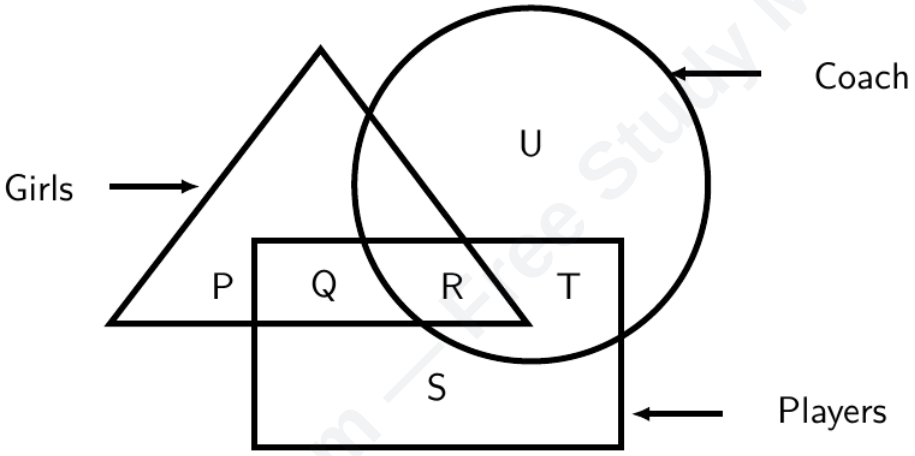
Q5. Who is the current director of Research and Analysis Wing (RAW), India's foreign intelligence service?

(a) Kiran Bedi
(b) Samant Goel
(c) Dineshwar Sharma
(d) Ajit Doval

Q6. On which dates of December 2018 will be Wednesdays?

(a) 4, 11, 18, and 25
(b) 5, 12, 19 and 26
(c) 3, 10, 17 and 24
(d) 6, 13, 20 and 27

Q7. In the following Venn diagram which region represents the coach who is also a player but not a girl?



(a) U
(b) T
(c) R
(d) S

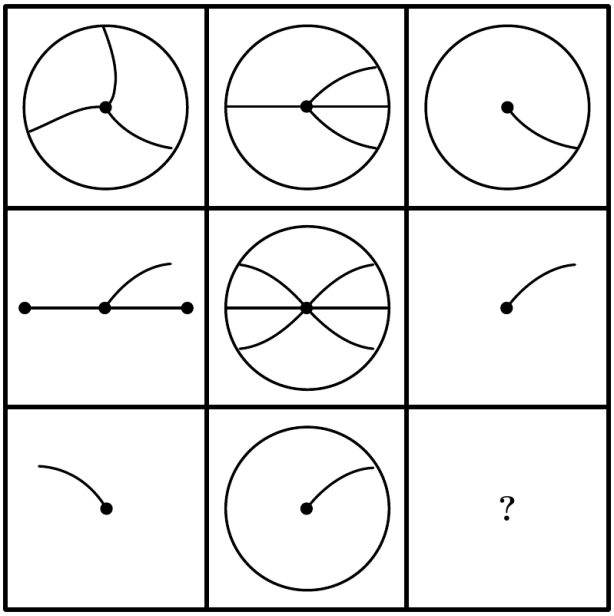
Q8. Solve the following: 22 - (1/4){-5 - (-48) ÷ (-16)}.

(a) 0
(b) 24
(c) 22
(d) 21

Q9. What are the receptors for detecting taste called?

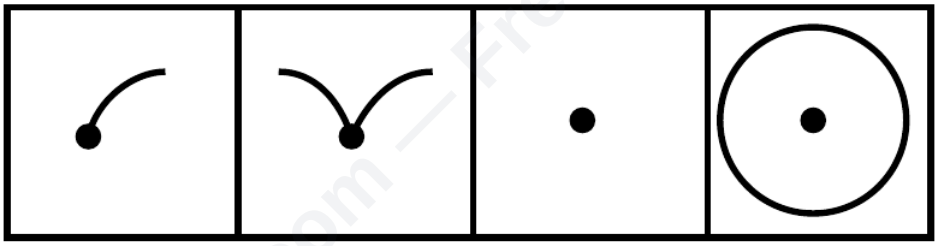
(a) Sensory receptors
(b) Chemical receptors
(c) Olfactory receptors
(d) Gustatory receptors

Q10. Select the option that correctly fits in the blank space in the given figure.



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A B C D



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

Q11. If tanθ = 7/24, then find the value of p such that (tanθ - secθ)/sinθ = -p/28.
(a) 25
(b) 75
(c) 50
(d) 100

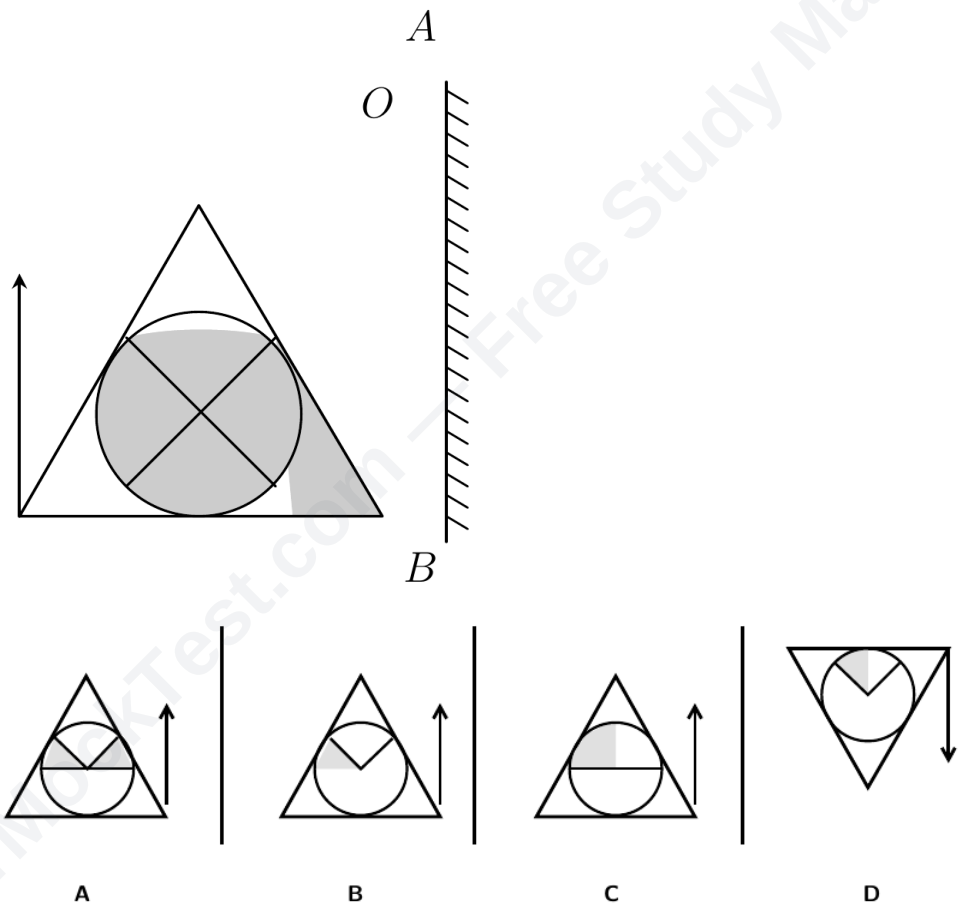
Q12. Select the missing term based on the given related pair.
MAKING : KGMANI ? CAPETO : _____
(a) POCATE
(b) POTECA
(c) POCAET
(d) POACTE

Q13. The value of universal gravitation constant (G) was determined by:
(a) Henry Cavendish
(b) Antoine L Lavoisier
(c) Issac Newton
(d) John Dalton

Q14. Which of the following is NOT a property of acids?
(a) Acid has a sour taste
(b) Acid has a bitter taste
(c) Acid form salt with a base
(d) Acid turns blue litmus red

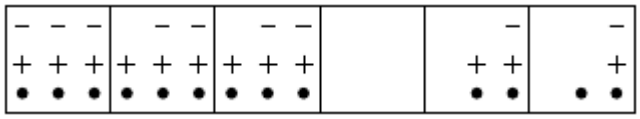
Q15. Choose the correct mirror image of the problem figure when the mirror is placed to the right of the figure.

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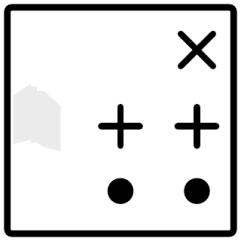


(a) D
(b) B
(c) C
(d) A

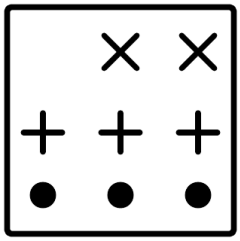
Q16. Select the option that will correctly fit in the blank space in the given figure series.



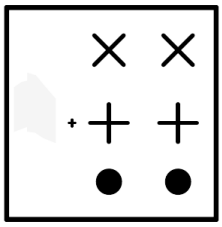
(a)



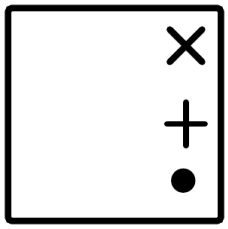
(b)



(c)



(d)



Q17. The Arjuna Awards given by the Government of India is for public achievement in which fo the following fields?

(a) Literature
(b) Poverty eradication
(c) Sports
(d) Economics

Q18. In the process of _____, the iron is protected by a coating of zinc.

(a) Greasing
(b) Alloying
(c) Galvanization
(d) Anodising

Q19. The fraction from the ones listed below that will NOT lead to a recurring decimal is:

(a) 8/56
(b) 6/56
(c) 4/56
(d) 7/56

Q20. The difference between the place values of 9 and 5 in the number 428693745 is:

(a) 90995
(b) 99995
(c) 89995
(d) 8995

Q21. A copper wire when bent in the form of a square encloses an area of 121 cm^2. If the same wire is bent in the form of a circle, find the area of the circle. (Use $\pi = 22/7$)

(a) 154 cm^2
(b) 153 cm^2
(c) 155 cm^2
(d) 150 cm^2

Q22. A raised hammer possesses:

(a) Kinetic energy
(b) Mechanical energy
(c) Muscular energy
(d) Potential energy

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Q23. When $x^2 + ax + b$ is divided by $(x - 1)$, the remainder is 15 and when $x^2 + bx + a$ is divided by $(x + 1)$, the reminder is -1, then the value of $a^2 + b^2$ is:

(a) 10
(b) 20
(c) 8
(d) 100

Q24. If $a - 1/a = 1$, then $a^2 + 1/a^2 = ?$

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

Q25. Consider the given argument and decide which of the given assumptions is (are) implicit.

Argument:

Due to the water crisis in the city, the authority had asked all the citizens to reduce their water consumption by 25%.

Assumptions:

1. Many citizens may reduce their water consumption.
2. Many activists may protest to this advisory by the authority.

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

Q26. If a body takes 't' seconds to go once around the circular path of radius 'r', the velocity 'v' is given by

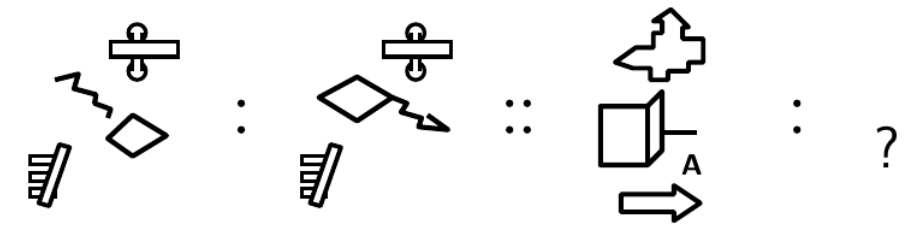
(a) $v = t/(2\pi r)$
(b) $v = (2\pi r)/t$
(c) $v = (2\pi r^2)/t$
(d) $v = (\pi r)/2t$

Q27. Who is the only Indian economist to have won the Nobel Prize?

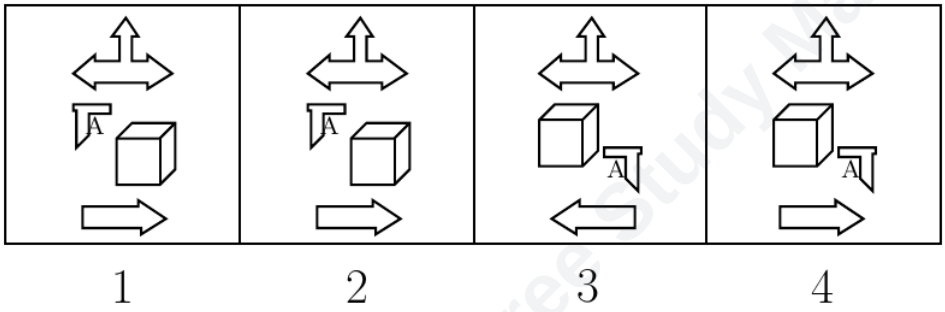
(a) Avinash Dixit
(b) Amit Mishra
(c) Amartya Sen
(d) Abhijit Banerjee

Q28. Complete the series given in the Problem Figure with an appropriate option from the answer figures.

Problem Figure



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

Q29. Find the L.C.M of 4/5, 2/3 and 5/7

(a) 25
(b) 20
(c) 40
(d) 30

Q30. What happens as we go down the group in the periodic table?

(a) The number of shells decreases
(b) Valence electrons decreases
(c) The number of shells increases
(d) Atomic size decreases

Q31.

1	**?**	**3**

Find the missing digit if it has 11 and 13 as factors?

(a) 2
(b) 6
(c) 8
(d) 4

Q32. Consider the given question and decide which of the following statements is sufficient to answer the question.

Which of these natural numbers X, Y, Z, U, and V are even numbers?

Statements:

1. X, Y, Z, U, and V are consecutive numbers.
2. Z is an odd number.

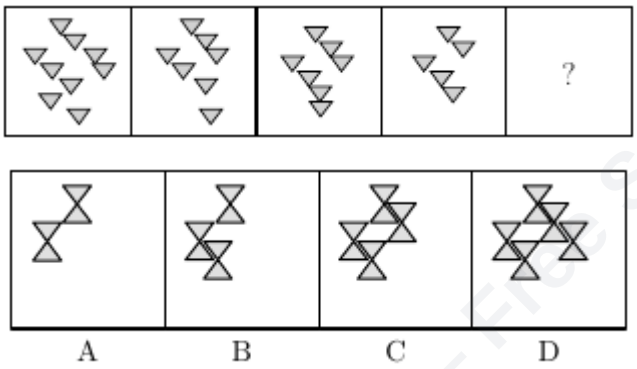
(a) Both statement 1 and 2 together are sufficient
(b) Statement 2 alone is sufficient while statement 1 alone is insufficient
(c) Statement 1 alone is sufficient while statement 2 alone is insufficient
(d) Neither statement 1 nor 2 is sufficient

Q33. _____ forms a common passage for both urine and sperms in human males.

(a) Oviduct
(b) Ureter
(c) Urethra
(d) Vas deferens

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Q34. Select the option that would come next in the following figure series.



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

Q35. Travelling at 4/5^(th) of his usual speed, a man is 15 minutes late. What is his usual time to cover the same distance?

(a) 15 minutes
(b) 1 hours
(c) 75 minutes
(d) 45 minutes

Q36. Tooth decay starts when the pH of the mouth is lower than:

(a) 5.7
(b) 5.5
(c) 5.6
(d) 5.4

Q37. Select the time that would depict the correct mirror image of 9:30 in a clock.

(a) 2:30
(b) 6:30
(c) 7:30
(d) 4:30

Q38. Consider the given statement and decide which of the given assumption(s) is (are) implicit.

Statement:

Shyam tells Gita, “The ways to reach Sri Lanka is through air and water”.

Assumptions:

1. Gita likes to travel to Sri Lanka.
2. Shyam is fond of advising people.

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

Q39. Who is the famous Indian actress who stars in the ‘Quantico’ TV series on American Broadcasting Corporation?

(a) Alia Bhatt
(b) Deepika Padukone
(c) Priyanka Chopra
(d) Malaika Arora

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Q40. Consider the given question and decide which of the following statements is sufficient to answer the question.

How Swathi is related to Namitha?

Statements:

I. Swathi's husband is the only son of Namitha's mother.

II. Swathi's brother and Namitha's husband are cousins.

(a) Both I and II are sufficient to answer the question.
(b) II alone is sufficient while I alone is not sufficient to answer the question.
(c) Either I or II is sufficient to answer the question.
(d) I alone is sufficient while II alone is not sufficient to answer the question.

Q41. Dipali bought a set of cups for Rs. 375, but then had to sell it later to clear old stocks for Rs. 345. What is the percentage of loss that she incurred?

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

Q42. If 123 × 356 = 43788, then 1.23 × 0.356 = ?

(a) 437.88
(b) 4.3788
(c) 0.43788
(d) 0.043788

Q43. Consider the given statement true and decide which of the given conclusions can definitely be drawn from the given statements.

Statement:

People complain that bus tickets are not available during festival seasons.

Conclusions:

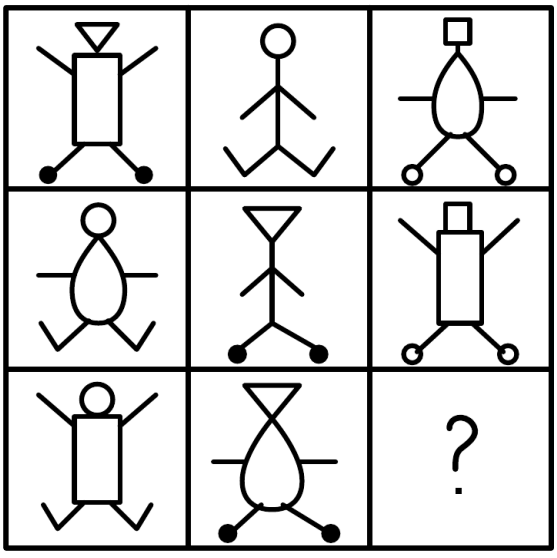
1. People should be advised not to travel during festival seasons.

2. The government should bring in more buses during festival seasons.

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

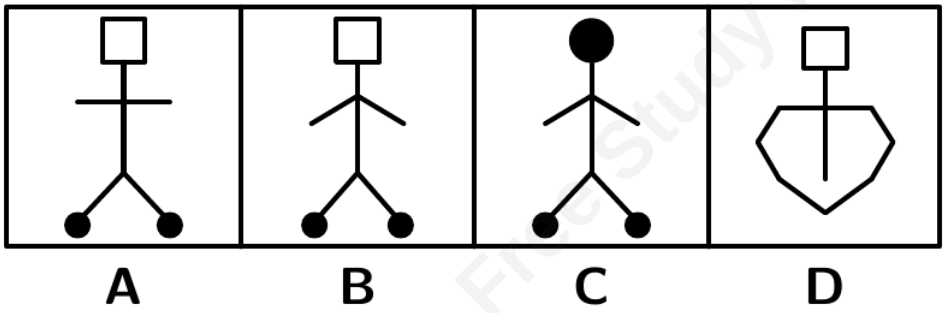
Q44. Complete the problem figure with an appropriate option from the answer figures.

Problem Figures



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Answer Figures



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

Q45. Four numbers, when arranged in ascending order, are w, x, y and z. The average of the smallest three numbers is 18, while the average of the largest three was 22. What is the range of the data?

(a) 10
(b) 12
(c) 13
(d) 11

Q46. Which of the following is an amphoteric oxide?

(a) Aluminium oxide
(b) Iron (II) oxide
(c) Magnesium oxide
(d) Carbon dioxide

Q47. The ratio of sand to gravel in a mixture is 17 : 8 while that between gravel and cement is 6 : 17. What is the ratio of sand to cement in the mixture?

(a) 1 : 1
(b) 289 : 48
(c) 8 : 6
(d) 3 : 4

Q48. The square root of 3249 is:

(a) 63
(b) 59
(c) 57
(d) 67

Q49. Consider the given question and decide which of the following statement(s) is/are sufficient to answer the question.

What is the average daily wage of X, Y and Z?

Statements:

1. Y's salary is half of (X + Z)

2. X and Y together earn Rs. 40 more than Z and Z earns Rs. 500

(a) Both 1 and 2 are sufficient
(b) Neither 1 nor 2 is sufficient
(c) 1 alone is sufficient while 2 alone is insufficient
(d) 2 alone is sufficient while 1 alone is insufficient

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Q50. A current I flows through a resistor. A source maintains a potential difference of V across the resistor. The energy supplied by the source in time t is:

(a) V I t^2
(b) V I
(c) V I t
(d) V I/ t

Q51. Consider the given argument and decide which of the given assumptions is (are) implicit.

Argument:

All girls love reading novels.

Assumptions:

1. Novels are the only reading materials.
2. No girl loves to read other materials.

(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.

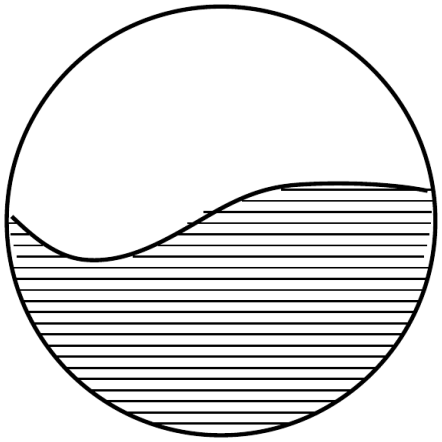
Q52. Select the missing word pair based on the given related pair.

Buy : bought ? _____

(a) Tore : Tear
(b) Ran : Run
(c) Sang : Sing
(d) Shut : Shut

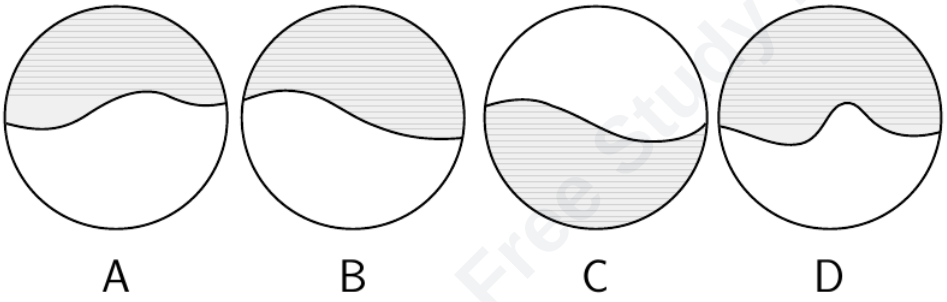
Q53. Choose the correct water image of the given problem figure.

Problem Figure



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Answer Figures



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

Q54. In the given equation, LHS = RHS only when we interchange numbers _____ on the same side.

5 + 3 × 6 – 4 ÷ 2 = 4 × 3 – 10 ÷ 2 + 7

(a) 5 and 2
(b) 3 and 7
(c) 6 and 4
(d) 4 and 7

Q55. As of February 2018, who is the Chief Minister of Telangana, who is also the first Chief Minister of Telangana?

(a) K Chandrasekhar Rao
(b) Kadiyam Srihari
(c) T Rajaiah
(d) Chandrababu Naidu

Q56. According to an early Indian philosopher, everything is made up of _____ basic elements.

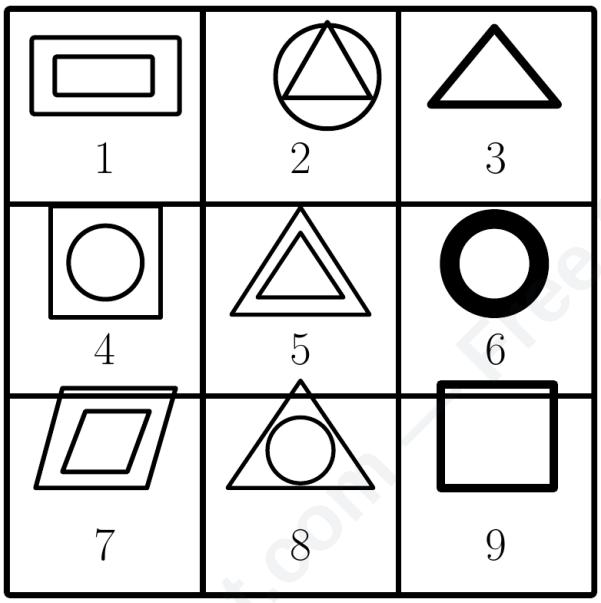
(a) 2
(b) 4
(c) 3
(d) 5

Q57. Find the position of the image formed by a concave mirror when the object is placed between P and F?

(a) At infinity
(b) Between F and C
(c) Behind the mirror
(d) Beyond C

Q58. If three groups could be formed using the given figures only once, these groups would be _____.

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

Q59. The boiling point of alcohol is 78°C. What is the temperature in Kelvin scale?
(a) 78 K
(b) 341 K
(c) 373 K
(d) 351 K

Q60. A train leaves Kazipet at 5 a.m. and reaches Bangalore at 3 p.m. Another B train leaves Bangalore at 7 a.m. and reaches Kazipet at 5 p.m. When do the two trains meet? Assume that the trains travels at equal uniform speeds.
(a) 1 p.m.
(b) 12 noon
(c) 11 a.m.
(d) 10 a.m.

Q61. What is tissue?
(a) Cells which are similar in origin but dissimilar in form and function.
(b) Cells which are dissimilar in origin but similar in form and function.
(c) Cells which are dissimilar in origin, form, and function.
(d) Cells which are similar in origin, form, and function.

Q62. If in a certain code, UNGIMMICKY is written as MIGNUYKCIM, then how will COMPLEXITY be written as in the same code?
(a) LPOMCYTIXE
(b) LPMOOCYTIXE
(c) LPMOYCTIXE
(d) LPMOCYTIXE

Q63. Working together, pipes A and B can fill an empty tank in 10 hours. They worked together for 4 hours and then B stopped, and A continued filling the tank till it was full. It took a total of 13 hours to fill the tank. How long would it take A to fill the empty tank alone?
(a) 15 hours
(b) 13 hours
(c) 16 hours

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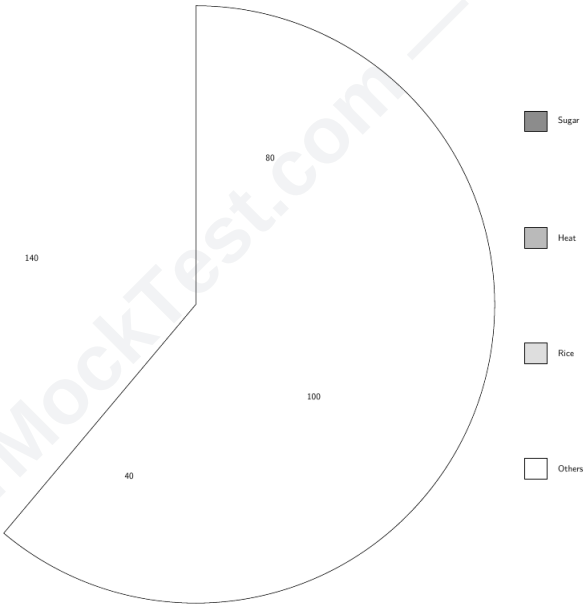
(d) 12 hours

Q64. As of February 2018, who owns the Hyderabad-based IPL team 'Sun Risers Hyderabad'?

(a) Deccan Chronicle Newspaper
(b) Kala Nidhi Maran
(c) Chandrababu Naidu
(d) Chiranjeevi

Directions

Direction: The given pie chart represents the annual yield of certain crops in tons (in degree). Study the chart carefully and answer the following question.



Q65. If the total production is 9000 tons, then find the yield of rice in tons.

(a) 3000
(b) 1000
(c) 2000
(d) 1500

Q66. The first Partition of Bengal took place in the year _____

(a) 1906 AD
(b) 1903 AD
(c) 1904 AD
(d) 1905 AD

Q67. Identify a type of asexual reproduction which involves reproduction through parts of a plant such as roots, stem, and leaves?

(a) Budding
(b) Vegetative propagation
(c) Fragmentation
(d) Fission

Q68. Which Indian author has chronicled the life in the Kumaon hills in the book 'Things to leave behind'?

(a) Shashi Tharoor
(b) Anosh Irani
(c) Namita Gokhale
(d) Vikram Seth

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Q69. The number of symbols that are preceded by a letter and not followed by a number in the following expression is _____.

A$1%MB#6&NC = 3!OD + KP

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

Q70. A person holding a pen in his left-hand sees his reflection in the mirror holding the pen in his right hand. This is due to which of the following phenomena?

(a) Diffused reflection
(b) Total internal reflection
(c) Lateral inversion
(d) Refraction

Q71. What will be the value of the kinetic energy (E_K) of a moving body with mass m, if its speed is doubled from v to 2v?

(a) ½ E_k
(b) 4 E_k
(c) There will be no change in E_k
(d) 2 E_k

Q72. 80% of a number is 100. What is the number?

(a) 108
(b) 120
(c) 80
(d) 125

Q73. If the resistance of a conductor is doubled, the current gets halved. This is because:

(a) I = V – R
(b) I = V/R
(c) I = (R/V)n
(d) I = V R

Q74. Which north-eastern state of India has signed up to host the 39^(th) National Games in the year 2022?

(a) Meghalaya
(b) Mizoram
(c) Tripura
(d) Manipur

Q75. In which city is St. Peter's Basilica, one of the most famous churches in Christianity, located?

(a) Madrid
(b) Lisbon
(c) Pisa
(d) Vatican City

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

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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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