RRB ALP CBT I 13 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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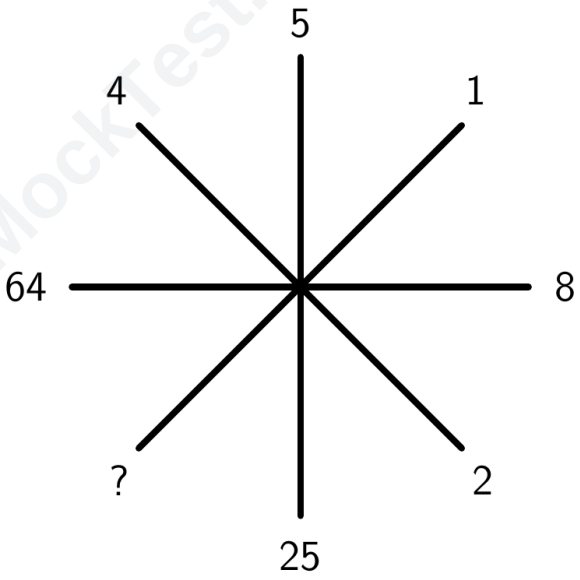
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STAGE I (CBT I)

Q1. Select the option that gives the number missing from the following figure.



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

Q2. Solve the following

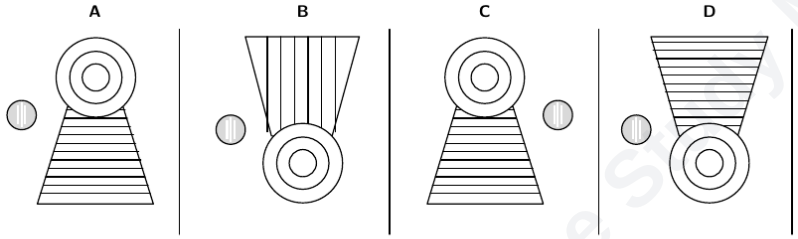
45 – [30 – {60 ÷ 3 – (6 – 9 ÷ 3) ÷ 3}]

(a) 25
(b) 34
(c) 24
(d) 21

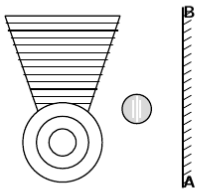
Q3. If the edge of a cube is increased by 2 cm, the volume will increase by 488 cm^3. What then will be the length of each edge of the cube?

(a) 8 cm
(b) 6 cm
(c) 9 cm
(d) 7 cm

Q4. Choose the correct mirror image of the following figure if the mirror is held at AB line.



Answer Figure



Problem Figure

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

Q5. One pipe can fill an empty cistern in 4 hours while another can drain the cistern when full in 10 hours. Both the pipes were turned on when the cistern was half-empty. How long will it take the cistern to be full?

(a) 6 hours 40 minutes
(b) 5 hours 30 minutes
(c) 4 hours 20 minutes
(d) 3 hours 20 minutes

Q6. Complete the following sentence with the most appropriate option.

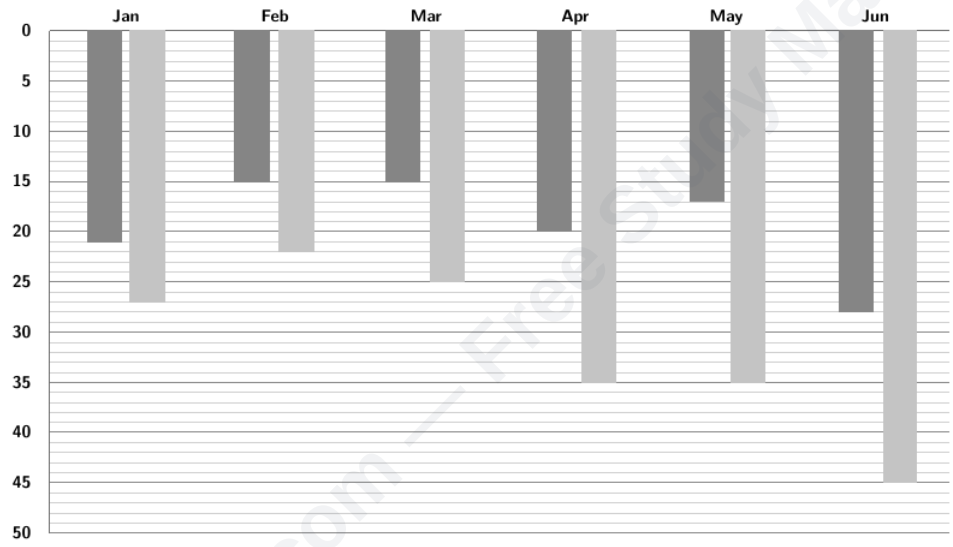
A king will always have a _____

(a) Minister
(b) Kingdom
(c) Sword
(d) Queen

Directions

Direction: The Bar graph given below shows the registration of bikes and total vehicles (in thousands) for six months in 2017 in city X.

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Note: In the chart, the first bar number represents the bike and the number of the second bar represents the total number of vehicles.

Q7. The increase in registration of bikes form May to June 2017 is:

(a) 70%
(b) 69%
(c) 60%
(d) 64.70%

Q8. Sound CANNOT travel through:

(a) Liquid
(b) Solid
(c) Air
(d) Vacuum

Q9. The Fugitive Economic Offenders Bill 2017 was passed by which ministry?

(a) Labour Ministry
(b) Commerce Ministry
(c) Law Ministry
(d) Finance Ministry

Q10. Which of the following is NOT the combined form of Carbon?

(a) Chalk
(b) Marble
(c) Diamond
(d) Dolomite

Q11. If 192 pens cost is Rs. 10, how many pens can be bought for Rs. 5?

(a) 48
(b) 96
(c) 56
(d) 72

Q12. Which of the following is a rational number?

(a) cbrt2
(b) cbrt8
(c) cbrt4
(d) cbrt12

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Q13. Who stated the following law: 'The properties of the elements are a periodic function of their atomic masses'?

(a) Newlands
(b) Moseley
(c) Mendeleev
(d) Doberiner

Q14. If the first and third members of a Doberiner triad are Phosphorus and Antimony, the second member of this triad is:

(a) Iodine
(b) Sulphur
(c) Calcium
(d) Arsenic

Q15. Select the term missing from the given series.

PG, QH, RI, ?

(a) SJ
(b) TL
(c) TS
(d) KJ

Q16. The product of two numbers is 40. One of them is 2.50. What is the other number?

(a) 15
(b) 12
(c) 14
(d) 16

Q17. To hear a distinct echo the time interval between the original sound and the reflected sound must be at least _____.

(a) 1 second
(b) 0.1 second
(c) 0.2 second
(d) 2 second

Q18. Who won a gold medal in the World Weightlifting Championship at Anaheim, USA, in 2017?

(a) Kunjarani Devi
(b) Vandana Gupta
(c) Karnam Malleswari
(d) Mirabai Chanu

Q19. Name of the professional Indian basketball player who became the first ever player to be drafted from India into the National Basketball Association (NBA).

(a) Akilan Pari
(b) Yadwinder Singh
(c) Satnam Singh Bhamara
(d) Ajmer Singh

Q20. Consider the argument and decide which of the given assumptions is/are implicit.

Argument:

A flyover has been constructed at a whopping cost of Rs. 200 cores, yet people are not utilising it much.

Assumption:

1. Construction of the flyover is useless.

2. The time, money and energy spend on the construction of the flyover was wasted.

(a) Both 1 and 2 are implicit
(b) Only assumption 1 is implicit
(c) Only assumption 2 is implicit

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(d) Neither 1 nor 2 implicit

Q21. The smallest number that must be subtracted from 2800 so that the obtained number is a perfect square is:

(a) 69
(b) 9
(c) 96
(d) 73

Q22. If the 8 digit number 136p5785 is divisible by 15, then find the least possible value of P.

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

Q23. India-born Leo Vardkar became the Prime Minister of which of the following countries?

(a) Scotland
(b) Sri Lanka
(c) South Africa
(d) Ireland

Q24. Consider the argument and decide which of the given assumptions is/are implicit.

Argument:

If you're a classical dancer, we have an exciting job for you.

Assumptions:

1. We need a classical dancer.
2. You are a classical dancer.

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

Q25. There are red(A), yellow(B) and green(C) tokens in a bag. A : B ? 3 : 8, B : C ? 6 : 13, Find the value of A : B : C.

(a) 3 : 48 : 13
(b) 3 : 8 : 13
(c) 9 : 24 : 52
(d) 3 : 6 : 13

Q26. Who wrote the Indian historical fiction novel 'The Rise of Sivagami' published in March 2017?

(a) Anand Neelakantan
(b) Arundhati Roy
(c) Amish Tripathi
(d) Devdutt Pattanaik

Q27. The pH of a solution, whose hydrogen ion concentration is 1 × 10^(-5) mole per litre, will be _____.

(a) 6
(b) 5
(c) 4
(d) 7

Q28. Which of the following is not a voluntary action?

(a) Moving a chair
(b) Beating of heart
(c) Closing of fist
(d) Taking an object

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Q29. Consider the statement to be true and decide which of the following assumption is/are implicit.

Statement:

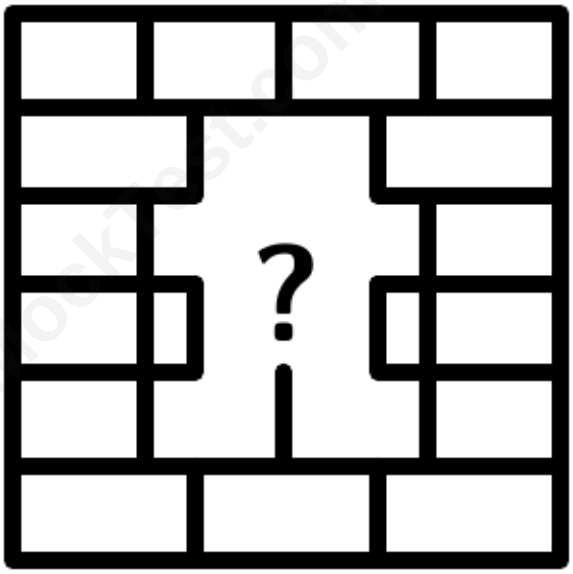
This year, in the budget session, there was no fund allotment for travel insurance.

Assumptions:

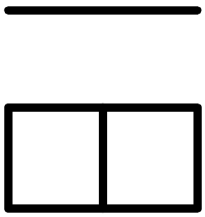
1. Travel insurance requires funds.
2. There are many other areas that need more financial attention.

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

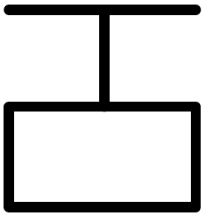
Q30. Select the option that will correctly fit in the blank space in the given figure.



(a)

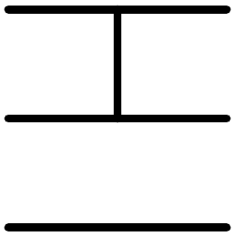


(b)

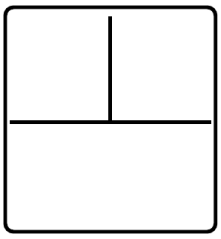


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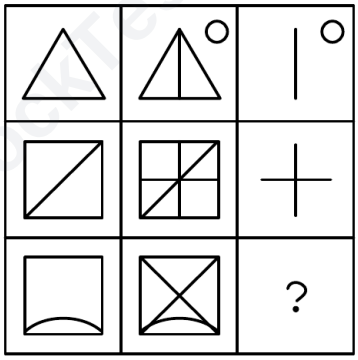
(c)

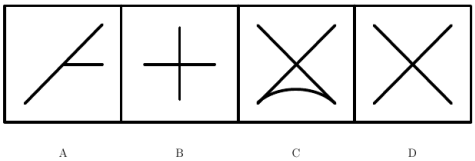


(d)



Q31. Select the correct figure that replace the question mark.





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

Q32. Mechanical energy is the sum of _____.

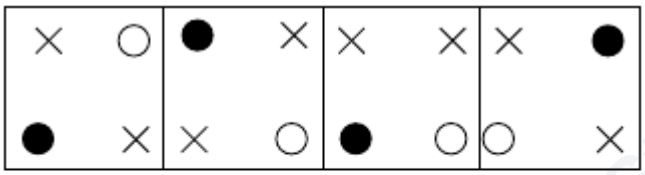
(a) Potential energy + heat energy
(b) Kinetic energy + heat energy
(c) Kinetic energy + potential energy
(d) Chemical energy + electrical energy

Q33. The capacity to do work is called:

(a) Power
(b) Pressure
(c) Energy
(d) Force

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Q34. Select the figure that does NOT belong in the following group.



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

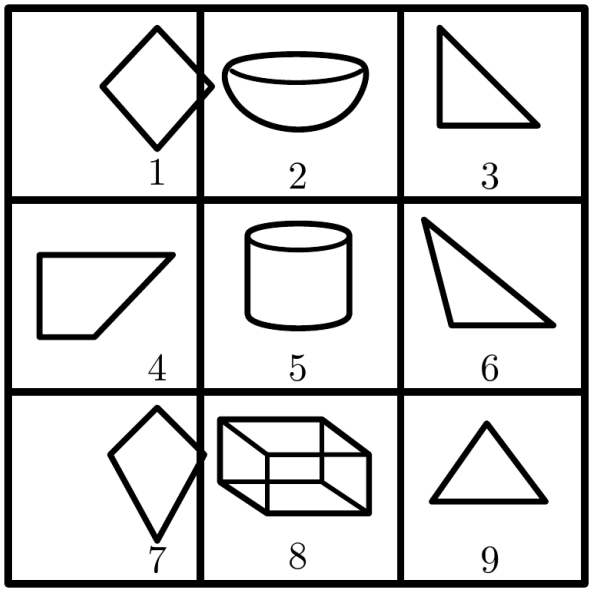
Q35. Two or more elements combine to form a:

(a) Atom
(b) Radical
(c) Compound
(d) Valence

Q36. In ΔABC, right angled at B, BC = 15 cm and AB = 8 cm. A circle is inscribed in ΔABC. The radius of the circle is:

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

Q37. Use each of the following figures only once and form three groups. The three groups so formed are:



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

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Q38. Which of the following devices help to maintain a potential difference across a conductor?

(a) Ammeter
(b) Galvanometer
(c) A cell or battery
(d) Voltmeter

Q39. Who is the Governor of Assam? (As of Aug 2018)

(a) Ganga Prasad
(b) Subramanian Swamy
(c) Jagdish Mukhi
(d) Banwarilal Purohit

Q40. How many atoms will one mole of Carbon (C – 12) contain?

(a) 6.02 × 10^(26)
(b) 60.20 × 10^(26)
(c) 8.06 × 10^(20)
(d) 6.02×10^{23}

Q41. A train, starting from rest, attains a velocity of 90 km/h in 5 minutes. Assuming that the acceleration is uniform, the distance travelled by the train during this time is:

(a) 1.5 km
(b) 3.25 km
(c) 2.25 km
(d) 3.75 km

Q42. In which language was 'Tujuk-i-Babri', the Memoirs of Babur, composed?

(a) Kurdish
(b) Pashto
(c) Urdu
(d) Turkish

Q43. 32% of a number is 80. What is the number?

(a) 260
(b) 250
(c) 40
(d) 50

Q44. The square root of 5776 is:

(a) 76
(b) 66
(c) 84
(d) 64

Q45. If the letters in the word BACKFIELED are arranged as in the English alphabetical order, then which letter will be to the second right of the letter 'F', after the rearrangement?

(a) C
(b) L
(c) E
(d) K

Q46. In Force equation, F is equal to:

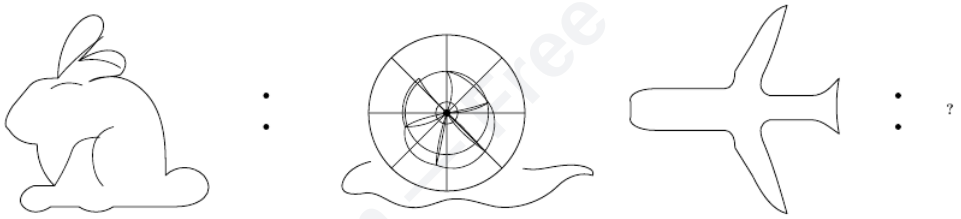
(a) ma
(b) mgh
(c) Mv
(d) u+at

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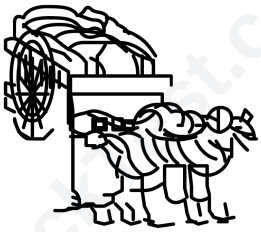
Q47. If $a + 1/a = 3$, then $a^3 + 1/a^3 = ?$

(a) 6
(b) 9
(c) 18
(d) 12

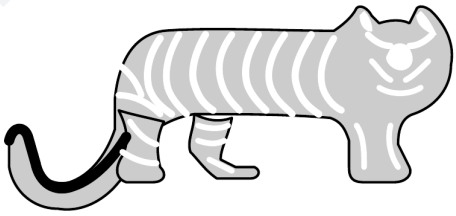
Q48. Select the missing figure based on the given related pair of figures.



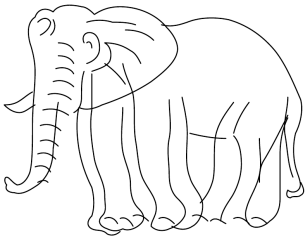
(a)



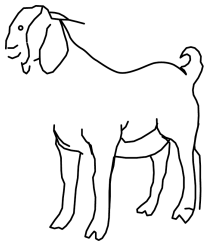
(b)



(c)



(d)



Q49. To go a certain distance of 40 km upstream a rower takes 8 hours while it takes her only 5 hours to row the same distance downstream. What was the rower's speed in still water?

(a) 1.5 km/h
(b) 4.5 km/h
(c) 6.5 km/h
(d) 4 km/h

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Q50. 'Explore' is related to 'Discover' in the same way as 'Walk' is related to _____.

(a) Find
(b) Accelerate
(c) Ramble
(d) Search

Q51. Which Indian state has the most number of domestic airports?

(a) Gujarat
(b) Delhi
(c) West Bengal
(d) Maharashtra

Q52. In a certain code, if DOG is written as 4157, then what will MAT be written as?

(a) 12120
(b) 13012
(c) 13120
(d) 14120

Q53. Consider the given question and decide which of the following statement is sufficient to answer the question.

What are the values of p, q and r?

Statements:

1. $(p + q)^2 = 16$
2. $p – q = 4$; $r = 2p$

(a) Neither 1 nor 2 is sufficient to answer the question.
(b) Only 1 is sufficient to answer the question
(c) Only 2 is sufficient to answer the question
(d) Both 1 and 2 together are sufficient to answer the question.

Q54. Complete the following sentence with the most suitable option.

A shirt always has _____

(a) fabric
(b) a collar
(c) a pocket
(d) a button

Q55. Which is the name of the point at which the chromatids are attached in a chromosome?

(a) Nucleosome
(b) Centromere
(c) Centrosome
(d) Gene

Q56. The female reproductive part of a flower is called_____.

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

Q57. Amish Tripathi, a famous Indian writer, is working on a series based on Ramayana, in which the first two books focus on Rama and Sita, respectively. On which character does the third book of this series focus?

(a) Hanuman
(b) Lakshmana
(c) Bharata
(d) Raavana

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Q58. Which of the following is used for disinfecting drinking water?

(a) Baking Soda
(b) Washing Soda
(c) Baking powder
(d) Bleaching powder

Q59. Which of the following allotropes of Carbon is used as a reducing agent in metallurgy?

(a) Coke
(b) Carbon Black
(c) Charcoal
(d) Graphite

Q60. If $\tan\alpha = \sqrt{2} - 1$, then the value of $\tan\alpha - \cot\alpha$ = ?

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

Q61. Solve the following

$7 \times \{4 + (-2) \times (-3)\} = ?$

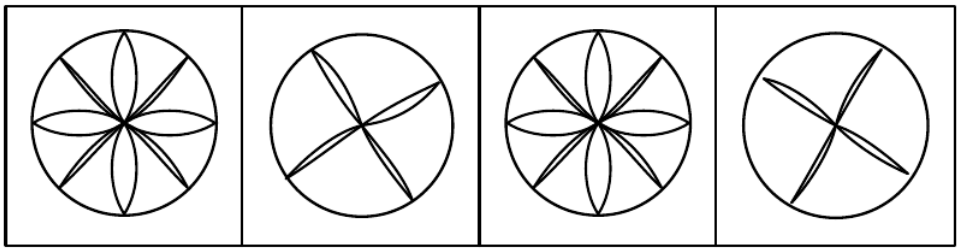
(a) 70
(b) 14
(c) -42
(d) -14

Q62. Find the compound interest on Rs. 62500 at 21% per annum for 11/2 years compounded half yearly.

(a) Rs. 21827.03
(b) Rs. 19687.5
(c) Rs. 21638.5
(d) Rs. 20695

Q63. Select the figure that does NOT belong in the following group.

A B C D



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

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Q64. What is the age of the eldest sister if, the sum of ages of 5 sisters born at the intervals of 3 years each is 50 years?

(a) 16 years
(b) 4 years
(c) 14 years
(d) 18 years

Q65. In the following alphanumeric series, one term is missing as shown by the question mark (?). Select the missing term from the given options.

5E, 7F, 11H, 17K, ?

(a) P25
(b) Q20
(c) N20
(d) 25O

Q66. Which chef was awarded the Padma Shri in 2017 for his culinary contributions?

(a) Vikas Khanna
(b) Madhur Jaffrey
(c) Sanjeev Kapoor
(d) Ranveer Brar

Q67. 23 × 31 = 713. How much is 0.0713 ÷ 3.1?

(a) 0.0023
(b) 0.23
(c) 0.023
(d) 2.3

Q68. There was a group of six student who took a test. Another student joined the group after taking the test later. With her marks included the average score of the group went up by 3. This student has got _____ marks more than the average marks without her being included.

(a) 20
(b) 21
(c) 18
(d) 24

Q69. The unit of power used in industry is:

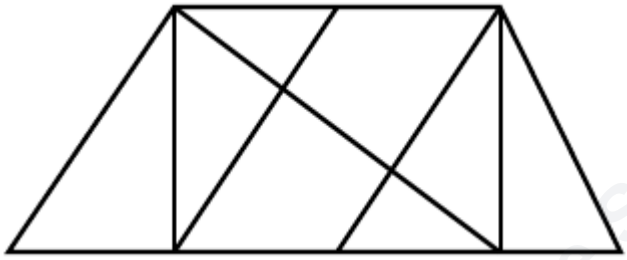
(a) Kilowatts
(b) Watts
(c) Joule
(d) Horse power

Q70. In the morning, X and Y walk towards each other in a park. When they meet, Y's shadow falls towards the right side of X. In which direction was X facing?

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

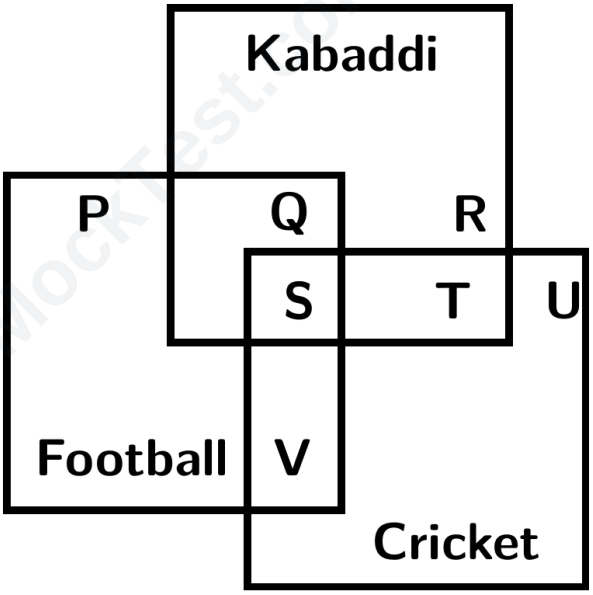
Q71. How many triangles are present in the below figure?

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(a) 13
(b) 15
(c) 14
(d) 12

Q72. In the following Venn diagram the total number of students who play all three games is:



(a) S + Q
(b) S + Q + V
(c) S
(d) S + V

Q73. A fungal cell wall is made of _____.
(a) Hemi-cellulose
(b) Cellulose
(c) Chitin
(d) Lignin

Q74. Praneet started his journey at 2:45:46 p.m. and reached the destination at 4:55:57 p.m. Anit started the journey 58 mins 40 secs after Praneet and reached his destination 50 mins 29 secs after him. How long did Anit take to complete his journey?
(a) 2 hours 1 minutes 12 seconds
(b) 2 hours 2 minutes
(c) 1 hour 58 minutes
(d) 2 hours 2 seconds

Q75. Complete the following sentence with the most appropriate option.
An office always has a/an
(a) Roof
(b) Car

(c) Kitchen
(d) Authority

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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