RRB ALP CBT I 14 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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STAGE I (CBT I)

Q1. Who took charge as the new Comptroller and Auditor General (CAG) of India in 2017?

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

Q2. Biogas is produced from biomass by _____.

(a) Destructive distillation
(b) Anaerobic fermentation
(c) Fractional distillation
(d) Dry distillation

Q3. A lemon kept in water in a glass tumbler appears to be bigger than its actual size when viewed from the sides. What is the reason behind this phenomenon?

(a) Diffraction of light
(b) Internal reflection of light
(c) Refraction of light
(d) Reflection of light

Q4. After 10 innings the average score per innings of a batsman was 52. After 12 innings the average rose to 54. If the batsman had scored 16 more runs in the 12th innings than in the previous one, how many runs did he score in the 11th innings?

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

Q5. Prostate gland is present below _____.

(a) The kidneys
(b) The scrotum
(c) The urinary bladder
(d) The penis

Q6. In the below series how many numbers are completely divisible by the number on right?

563248889266588343

(a) 5
(b) 4
(c) 6
(d) 3

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Q7. Plasma is formed in the stars because of very _____.

(a) low pressure
(b) high temperature
(c) high pressure
(d) low temperature

Q8. The HCF of 20, 28 and 48 is:

(a) 2
(b) 8
(c) 1
(d) 4

Q9. Energy possessed by an object by its position or configuration is called _____.

(a) Potential energy
(b) Kinetic energy
(c) Electrical energy
(d) Nuclear energy

Q10. Consider the given argument and decide which of the given assumptions is (are) implicit.

Argument:
During an election, the opposition party said, “look at the price rise in the last five years”.
Assumptions:
1. This time give a chance to our party for power.
2. Prices will still rise if you choose the same party to be in power.

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

Q11. 1^(st) January 2018 was a Monday. Which of the following years will also start on a Monday?

(a) 2022
(b) 2023
(c) 2020
(d) 2024

Q12. One of the roots of the equation $x^2 - 4x + k = 0$ is $x = 3$. The other root is:

(a) $x = -1$
(b) $x = -4$
(c) $x = 4$
(d) $x = 1$

Q13. Which component of the blood transports food, CO2 and nitrogenous waste?

(a) WBCs
(b) Blood platelets
(c) Plasma
(d) RBCs

Q14. Which of the following causes damage to bridges, iron railings and all objects made of metals?

(a) Corrosion
(b) Rancidity
(c) Acidity
(d) Reduction

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Q15. A pipe, working at full speed, can fill an empty cistern in 1 hour. However, during the first hour it worked at one-twelfth of its capacity, during the second hour at one-ninth of its capacity, during the third hour at one-sixth of its usual capacity, during the fourth hour at one- fourth of its usual capacity and during the fifth hour it was only one-third as efficient as it was supposed to be. A second pipe also displayed similar performance, but if it worked at full speed would have filled the empty cistern in 2 hours. Together with a drain pipe that drained water out of the tank at a constant rate, the empty cistern could be filled in 5 hours, all the three pipes working concurrently. How many hours will it take the drain pipe to empty the filled cistern if no other pipe was functioning during the time?

(a) 10
(b) 12
(c) 16
(d) 15

Q16. What day would it be on 15^(th) March 2020?

(a) Saturday
(b) Monday
(c) Sunday
(d) Tuesday

Q17. In the following series, one letter is missing as shown by the question mark (?). Select the missing letter from the given options.

E, J, O, T, ?

(a) W
(b) X
(c) Y
(d) Z

Q18. Who is the director of the film ‘Poorna’, which depicts the story of Poorna Malavath, the youngest girl to climb Mount Everest?

(a) Rahul Bose
(b) Anurag Kashyap
(c) Gautham Vasudeva Menon
(d) Ayan Mukherjee

Q19. The speed of sound in air at 0°C is_____.

(a) 330 ms
(b) 330 ms^(-1)
(c) 331 ms
(d) 331ms^(-1)

Q20. Select the option that depicts the correct mirror image for the given word.

SMILE



(a)



(b)



(c)



(d)



Q21. 'Freedom Trail' is a 2.5 mile long passage that offers a rich insight into the American Revolution. In which US city you would find this famous and historic trail?

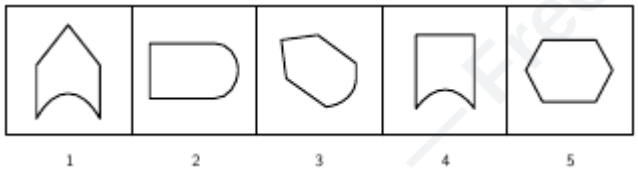
(a) Denver
(b) Connecticut
(c) Memphis
(d) Boston

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Q22. In a cricket match, the scores of the players are considered such that coefficient of variation of scores is 16% and mean is 25 .then the variance is:

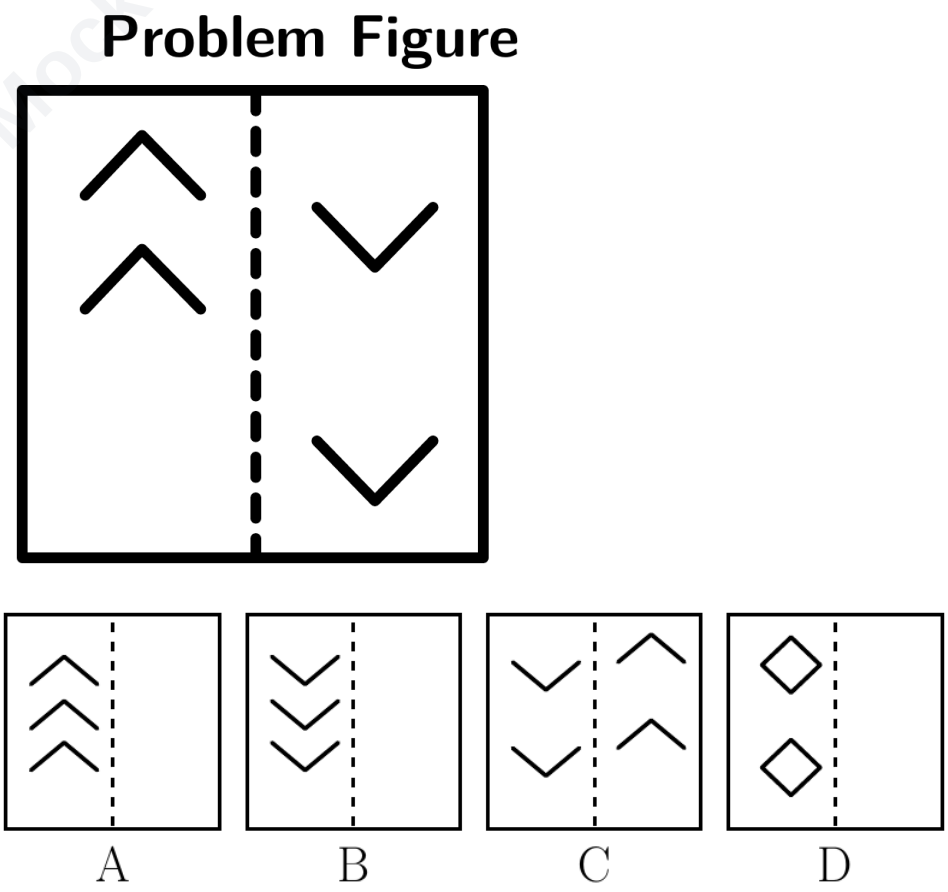
(a) 4
(b) 16
(c) 8
(d) 12

Q23. Select the odd figure out of the given series.



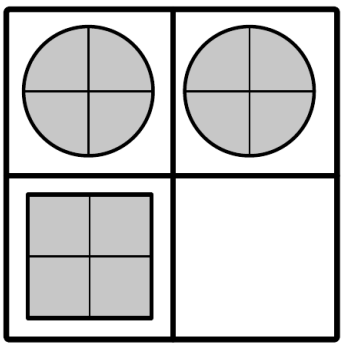
(a) 4
(b) 5
(c) 3
(d) 2

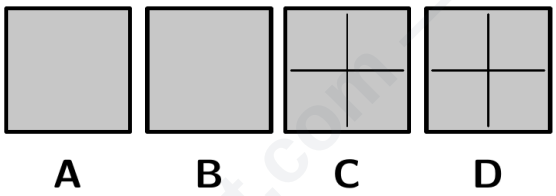
Q24. Select the option that depicts the following transparent sheet (Problem Figure) when folded at the dotted line shown.



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

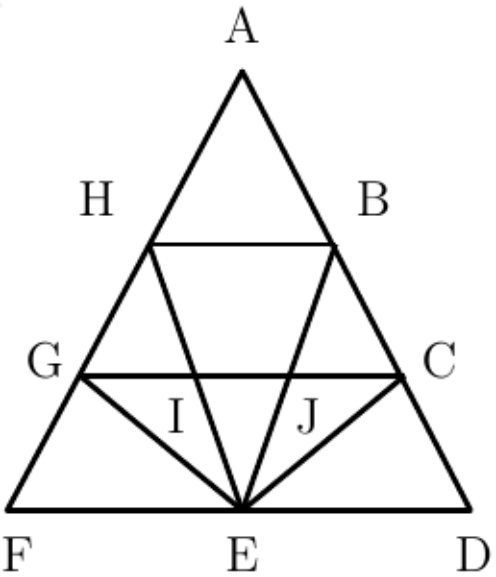
Q25. Choose the correct picture which follows:





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

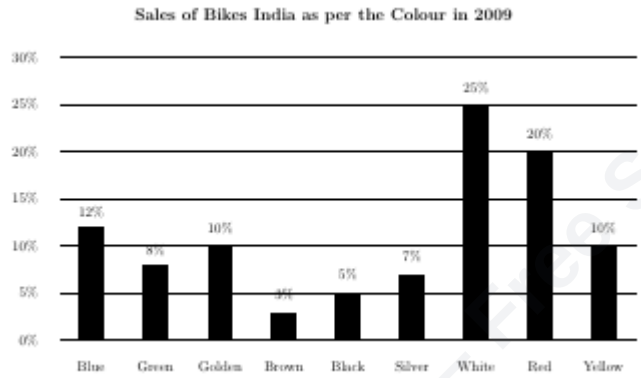
Q26. How many triangles are present in the below figure?



(a) 18
(b) 17
(c) 19
(d) 16

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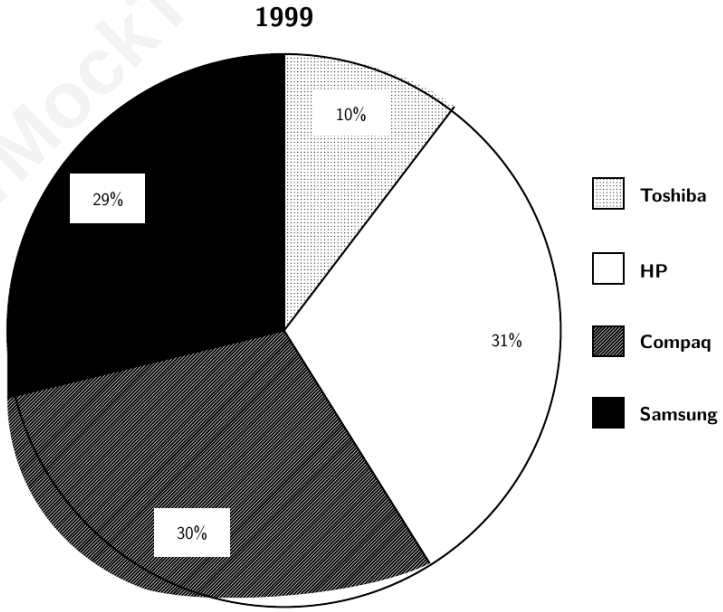
Q27.

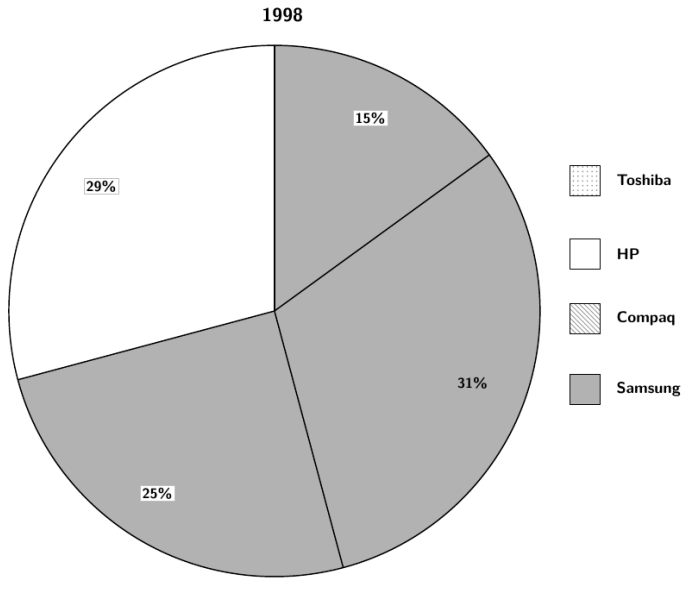


Based on the given data, determine the bikes of which colours will make a total sales of 55%?

(a) Brown, black, blue and golden
(b) Brown, black, red and golden
(c) Blue, green, gold, black and red
(d) Green, silver, blue and red

Q28.





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The given chart represents the sales of different companies in the year 1999 and 1998.

If the total sales in 1998 was 7890, which increased by 16.5% in 1999, then the total sales in the year 1999 is approximately _____.

(a) 9119
(b) 9911
(c) 1919
(d) 9191

Q29. Thirty men can do a piece of work in 16 days working 8 hrs a day. How many men are needed to complete another work, which is twice the first one, in 10 days working 12 hrs a day?

The following are the steps involved in solving the above problem. Arrange them in sequential order.

A) M2 = (30 × 16 × 8 × 2x)/(x × 12 × 10)

B) (30 × 16 × 8)/x=(M2 × 12 × 10)/(2 x)

C) (M1 D1 H1)/W1=(M2 D2 H2)/W2

D) M2 = 64

(a) ACBD
(b) ABCD
(c) BACD
(d) CBAD

Q30. Shrenik switched on a bulb at 2:39:40 hours and switched it off on the same day at 12:30:34 hours. For how long was the bulb in switched-on mode?

(a) 09 hours 50 minutes 54 seconds
(b) 12 hours 40 minutes 06 seconds
(c) 09 hours 09 minutes 06 seconds
(d) 10 hours 09 minutes 06 seconds

Q31. Who is the author of the Indian English Novel ‘Sita: Warrior of Mithila’ published in 2017?

(a) Amish Tripathi
(b) Rahul Mehta
(c) Chetan Bhagat
(d) Robin Sharma

Q32. Which of the following is NOT a characteristic of dicotyledons plants?

(a) These plants have 2 cotyledons
(b) These plants have fibrous roots
(c) These plants have reticulate venation
(d) These plants have a tap root

Q33. Which Indian industrialist was recently elected as the Chairman of the International Chamber of Commerce (ICC)?

(a) Mukesh Ambani
(b) Lakshmi Mittal
(c) Anil Ambani
(d) Sunil Mittal

Q34. Consider the given question and decide which of the following statements is sufficient to answer the question.

What is the colour of the granite in the kitchen?

Statements:

1. The colour of the granite is the colour of the wall.
2. The colour of the granite is very bright.

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

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Q35. A rocket is launched to travel vertically upward with a constant velocity of 20 m/s. After travelling for 35 seconds, the rocket develops a snag and its fuel supply is cut off. The rocket then travels like a free body. The height achieved by it is:

(a) 700 m
(b) 800 m
(c) 680 m
(d) 720 m

Q36.

Student/Subject	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 marks in each subject being 100.

The average marks of the four students in P and C together (round to one decimal) is:

(a) 68.3
(b) 136.2
(c) 68.2
(d) 69

Q37. What is the name the Russian chemist who stated that the properties of elements are a periodic function of their atomic masses?

(a) Mendeleev
(b) Markovnikov
(c) Zelinsky
(d) Zaitsev

Q38. Which among the following compounds has a double bond?

(a) Ethane
(b) Methane
(c) Acetylene
(d) Ethylene

Q39. Which of the following scientists had done some calculations for the fifth state of matter?

(a) CV Raman
(b) Satyendra Nath Bose
(c) Vikram Sarabhai
(d) Homi Bhabha

Q40. What is the name of the reddish brown gas evolved when Lead Nitrate is heated strongly?

(a) Nitrogen dioxide
(b) Nitrogen pentoxide
(c) Dinitrogen Oxide
(d) Nitric Oxide

Q41. The LCM of the three numbers 16, 28 and 42 is:

(a) 2
(b) 168
(c) 252
(d) 336

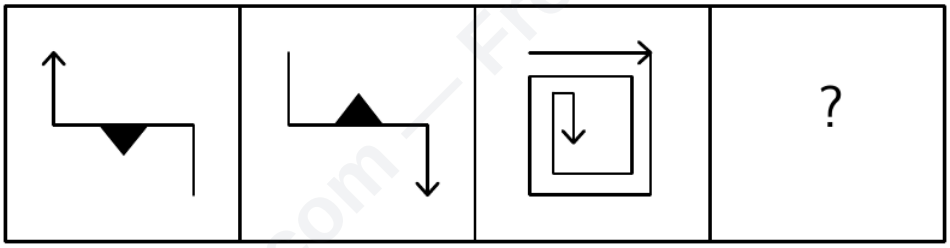
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Q42. A person bought an item for Rs. 1,500 and sold it at a profit of 12%. What was the selling price of the item?

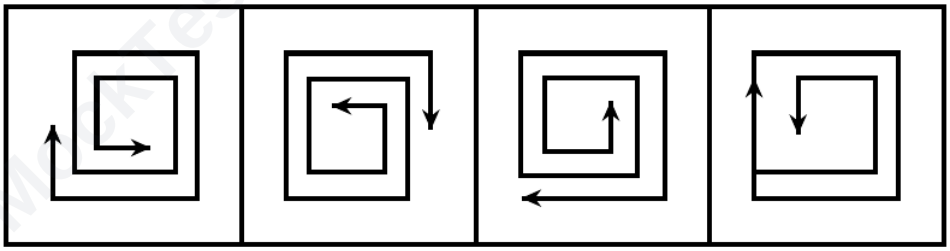
(a) Rs. 1,620
(b) Rs. 1,680
(c) Rs. 1,800
(d) Rs. 1,662

Q43. Complete the series given in the Problem Figure with an appropriate option from the Answer Figures.

Problem Figure



Answer Figure



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

Q44. Consider the given statements as true and decide which of the given conclusions can definitely be drawn from the given statements.

Statement:

All studious students pass in exams. All studious students sleep well.

Conclusions:

1. All who sleep well are studious students.
2. All who pass in exams sleep well.

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

Q45. The angle of elevation of the top of a hill at the foot of the tower is 60° and the angle of elevation of the top of the tower from the foot of the hill is 30°. If the tower is 50 m high, what is the height of the hill?

(a) 180 m
(b) 120 m
(c) 100 m
(d) 150 m

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Q46. Which one of the following females athletes is not a squash player?

(a) Koneru Humpy
(b) Joshna Chinnappa
(c) Dipika Pallikal
(d) Anaka Alankamony

Q47. The embryo gets nutrition from the mother's blood with the help of a special tissue called _____.

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

Q48. What is the full form of GST?

(a) Grand Sales Tax
(b) Goods Sales Tax
(c) General Sales Tax
(d) Goods and Services Tax

Q49. If the kinetic energy of a body becomes 256 times its initial value, then the new linear momentum will be:

(a) The same as the initial value
(b) 8 times the initial value
(c) 16 times the initial value
(d) 32 times the initial value

Q50. What is the time taken by a 180 m long train running at 54 km/h to cross a man standing on a platform?

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

Q51. Adithya got 78% marks in the examination. If he secured 663 marks, find the maximum marks.

(a) 700
(b) 800
(c) 750
(d) 850

Q52. In a bag the ratio of red balls to green balls is 4 : 9. If 6 more green balls were added to the bag, the ratio of red balls to green balls would become 1 : 3. How many red balls are there in the bag?

(a) 8
(b) 9
(c) 12
(d) 10

Q53. 'Car' is related to 'Garage' in the same way as 'Hen' is related to _____.

(a) Kennel
(b) Coop
(c) Stable
(d) Shed

Q54. Some books are arranged one above the other. If a book is at 18th position from top and 5th position from bottom then the total number of books is:

(a) 21
(b) 20
(c) 22
(d) 23

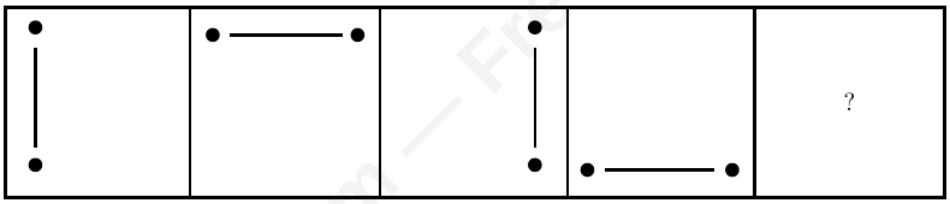
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Q55. Select the related word from the given alternatives:

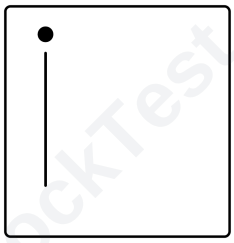
Transport : Goods ? Banks : _____

(a) Pounds
(b) Money
(c) Rupees
(d) Dollar

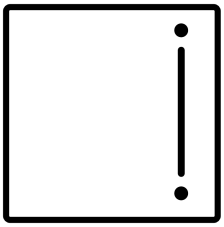
Q56. Select the option that will fit in the blank space in the given figure series.



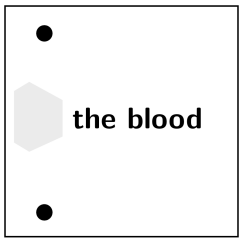
(a)



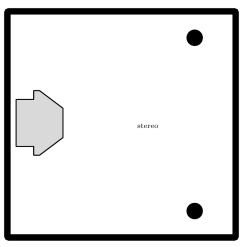
(b)



(c)

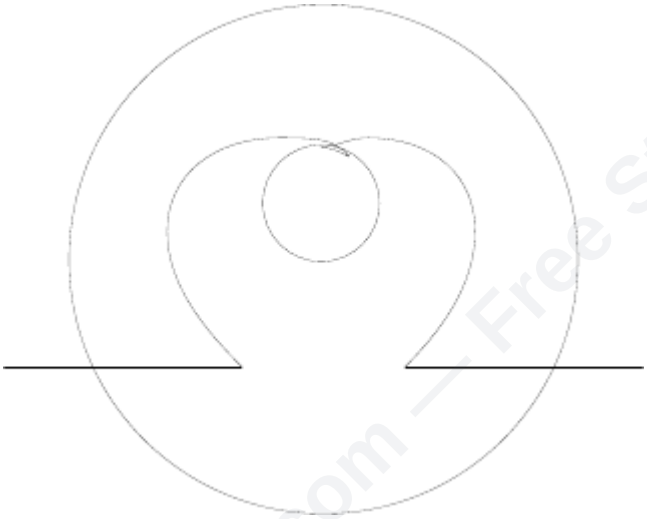


(d)



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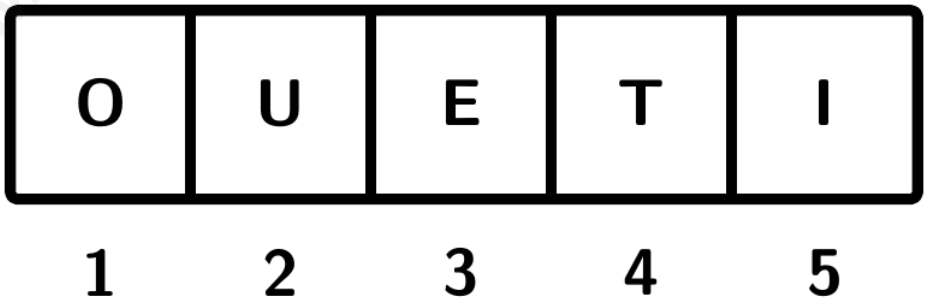
Q57.



The given symbol stands for a/an _____ in an electric circuit.

(a) plug key
(b) electric bulb
(c) resistor
(d) battery

Q58. Select the odd character out of the following series.



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

Q59. Which of the following is an unsaturated hydrocarbon?

(a) Ethyne
(b) Propane
(c) Butane
(d) Pentane

Q60. 30% of a number is 33. What is the number?

(a) 105
(b) 120
(c) 110
(d) 115

Q61. In a certain code, if MIZZLY is written as ZIMYLZ and PUZZLE is written as ZUPELZ, then what will BUZZWORD be written as in the same code?

(a) ZZUBDROW
(b) BUZZDROW
(c) DROWZZUB

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(d) WORDBUZZ

Q62. Which of the following numbers is not composite?

(a) 203
(b) 109
(c) 209
(d) 161

Q63. Read the given question and decide which of the following argument is/are strong.

Are stock markets sources of wealth creation?

Arguments:

1. Yes, money multiplies in stock markets.

2. No, investments in stock markets are subjected to market risk.

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

Q64. The square root of 5776 is:

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

Q65. A fraction, when taken away from 1/3 gives 1/12 The fraction is:

(a) 3/4
(b) 1/4
(c) 5/12
(d) 1/9

Q66. If 3/4 of the weight of a brick is 7/8 kg, then 5/7 of the weight of the brick will be:

(a) 20/21 kg
(b) 5/8 kg
(c) 5/6 kg
(d) 15/32 kg

Q67. An Odometer is an instrument used to measure _____ in automobiles.

(a) Speed
(b) Odour
(c) Direction
(d) Distance

Q68. Select the odd one out from the given series.

a - Tortoise, b - Crab, c - Frog, d - Fish

(a) d
(b) b
(c) a
(d) c

Q69. If the letters in the word ‘UNIVERSAL’ are arranged in the alphabetic order and each letter in the order is assigned a numerical value of 1, 2, 3 …. according to their position from the left, then the sum of the numerical values of the position of the consonants will be:

(a) 31
(b) 28
(c) 30

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(d) 32

Q70. Which is the first metallic element in the Modern Periodic Table?

(a) He
(b) H2
(c) Na
(d) Li

Q71. Where was the 2017 World Rapid Fire Chess Championship played, in which Viswanathan Anand regained his title?

(a) Chennai
(b) Oslo
(c) Dubai
(d) Riyadh

Q72. Consider the given statements to be true and decide which of the conclusions logically follow(s) from the statements.

Statements:

There is an increase in the price of essential commodities due to a strike by the transporters.

Conclusions:

1. The government should buy their own vehicles to transport essential goods.
2. The government should negotiate with transporters to withdraw the strike.

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

Q73. When was India’s capital shifted from Calcutta to Delhi?

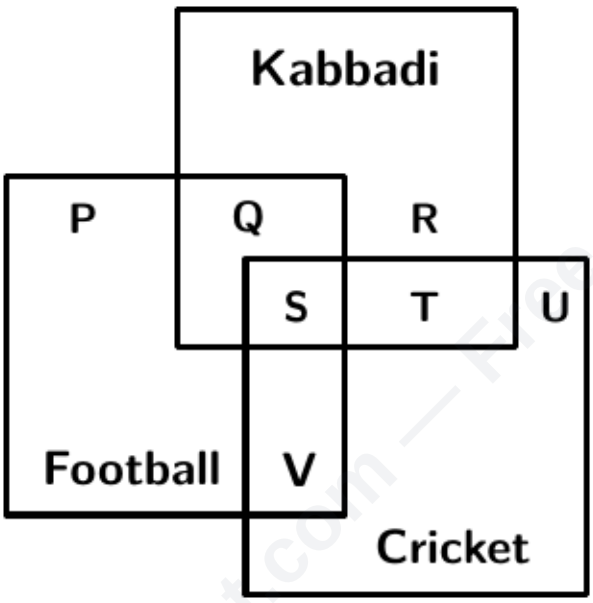
(a) 1912
(b) 1905
(c) 1910
(d) 1911

Q74. Who is the Chief Minister of Kerala as of February 2018?

(a) Pinarayi Vijayan
(b) Oommen Chandy
(c) AK Antony
(d) VS Achuthanandan

Q75. According to the given Venn diagram, the total number of students who play "cricket as well as football" and also "all the 3 games" is: _____.

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

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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