RRB ALP CBT I 20 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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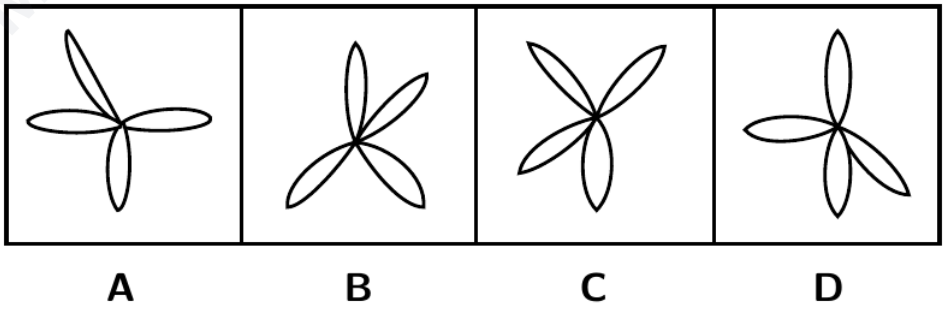
Scan the QR code or click the link to open it.

STAGE I (CBT I)

Q1. The volume of a right circular cone, whose radius of the base is half of its altitude, and the volume of a hemisphere are equal. The ratio of the radius of the cone to the radius of the hemisphere is:

(a) 2 : 1
(b) 1 : 1
(c) cbrt2 : 1
(d) √2 : 1

Q2. Select the figure which does NOT belong to the group.



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

Q3. Common salt (NaCl) is made up of:

(a) a strong acid and a weak base
(b) a weak acid and a weak base
(c) a weak acid and a strong base
(d) a strong acid and a strong base

Q4. The human body works within the pH range of:

(a) 6.0 to 7.0
(b) 6.0 to 6.8
(c) 7.0 to 7.8
(d) 7.0 to 8.6

Q5. A ball, thrown vertically upward, rises to a height of 80 m and returns to its original position. The magnitude of its displacement after 7 s of motion will be _____. (take g = 10m/s²)

(a) 35 m
(b) 125 m
(c) 45 m

(d) 25 m

Q6. A school always has a

(a) Headmaster
(b) Teacher
(c) Building
(d) Library

Q7. Select the missing term based on the given related pair of letter clusters.

BFK : IMR ? DGP : _____

(a) KNZ
(b) KNW
(c) WNK
(d) KWN

Q8. If $x^2 + ax + b$, when divided by $x - 3$, leaves a remainder of 22 and $x^2 + bx + a$, when divided by $x - 3$, leaves a remainder of 24, then $a + b = ?$

(a) 7
(b) 23
(c) -7
(d) -23

Q9. Consider the given argument and decide which of the given assumptions is (are) implicit.

Argument:

All the faculty members are instructed to reach the college by 9.00 A.M every day.

Assumptions:

1. Some faculty members do not come on time.
2. Faculty members will follow all the instructions in the notice.

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

Q10. The sum of the present ages of a father and his son is 60 years. Six years ago, father's age was five times the age of the son. After 6 years, son's age will be:

(a) 19 years
(b) 20 years
(c) 15 years
(d) 21 years

Q11. The Prime Minister of India unveiled a 112-feet bust of 'Lord Shiva in an Adiyogi pose' at the Isha Yoga center in 2017. In which city is this statue located?

(a) Kedarnath
(b) Varanasi
(c) Amaranth
(d) Coimbatore

Q12. The mean score in a test of 12 boys in a class was 16 while the overall mean of 30 students in the class was 18.1. What was the mean score of the girls?

(a) 20
(b) 2.5
(c) 19.5
(d) 19.8

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Q13. Who is the author of the autobiographical work 'On My Terms: From the Grassroots to the Corridors of Power'?

(a) Sharad Pawar
(b) Manmohan Singh
(c) Lalu Prasad Yadav
(d) Amit Shah

Q14. Which one of the following oxides of Nitrogen is also known as Laughing Gas?

(a) NO2
(b) N2 O5
(c) NO
(d) N2O

Q15. Consider the following statement and select the best option.

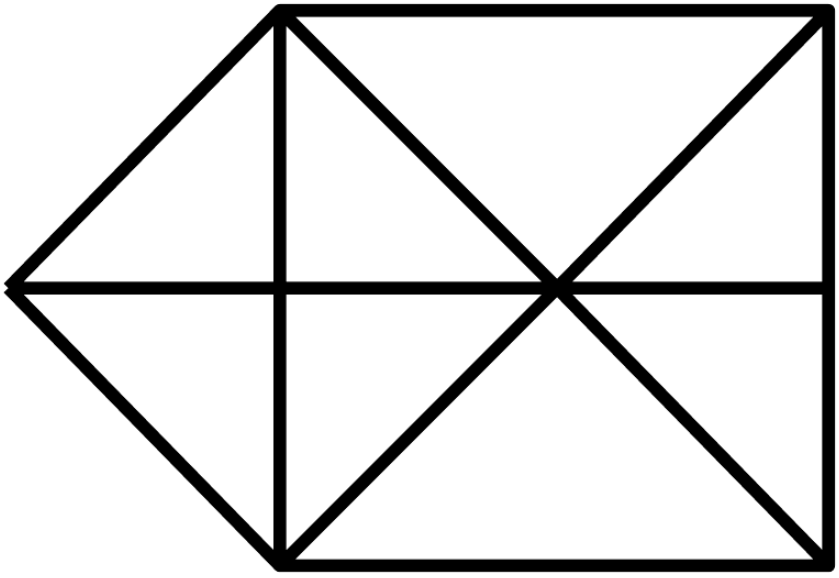
Gold is more expensive than silver.

(a) Never
(b) Often
(c) Always
(d) Sometimes

Q16. Who is the current chairman of the All India Council for Technical Education (AICTE)?

(a) Najma Heptulla
(b) Anil Sahasrabudhe
(c) Srikant Datar
(d) Pritam Singh

Q17. How many triangles are present in the below figure?



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

Q18. Involuntary actions in human beings such as blood pressure, salivation and vomiting are controlled by the:

(a) Pons
(b) Hypothalamus
(c) Medulla
(d) Spinal cord

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Q19. What is the fraction which when subtracted from 1/2 gives 2/3?

(a) 1/3
(b) 1/6
(c) -1/3
(d) -1/6

Q20. India implemented the GST (Goods and Service Tax) from which month of 2017?

(a) January
(b) March
(c) September
(d) July

Q21. If $x^2 + kx + k = 0$ has two distinct real solutions, then the value of k will satisfy:

(a) $k < 0$ or $k > 4$
(b) $0 < k < 4$
(c) $k < 0$ only
(d) $k > 4$ only

Q22. In how many test matches did Ravichandran Ashwin achieve the feat of becoming the fastest player in the world (in terms of numbers of matches) to get 300 wickets in test cricket in November 2017?

(a) 50
(b) 52
(c) 54
(d) 56

Q23. Which country hosted the FIFA Under 17 (U-17) World Cup in 2017?

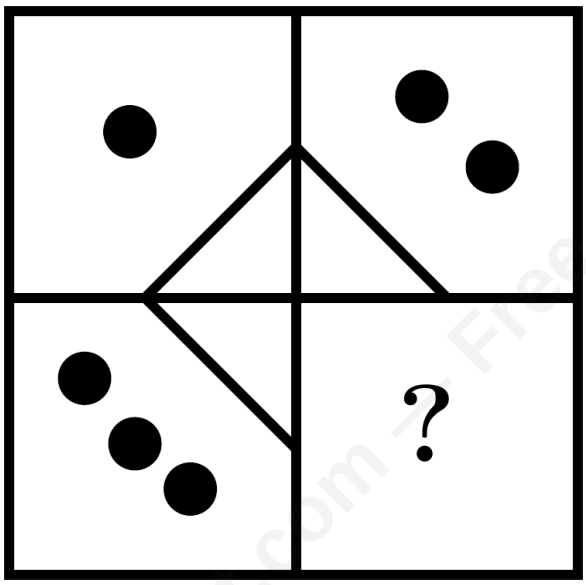
(a) Spain
(b) Brazil
(c) England
(d) India

Q24. Kaushik bought a toy for Rs. 160 and sold it for Rs. 180. The rate of profit was _____%

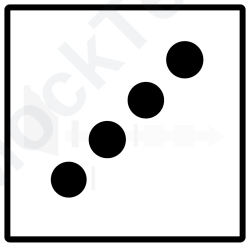
(a) 15.25
(b) 17.5
(c) 12.5
(d) 16

Q25. Select the option that correctly fits in the blank space in the given figure.

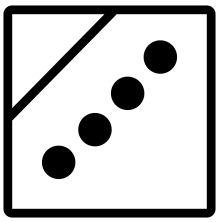
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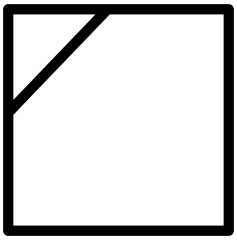
(a)



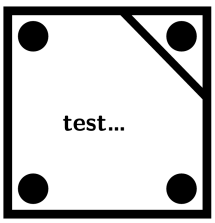
(b)



(c)



(d)



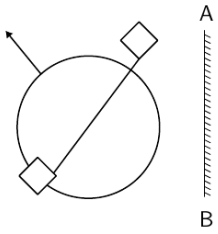
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Q26. Which of the following elements has a total of 3 shells with 8 electrons in the last orbit?

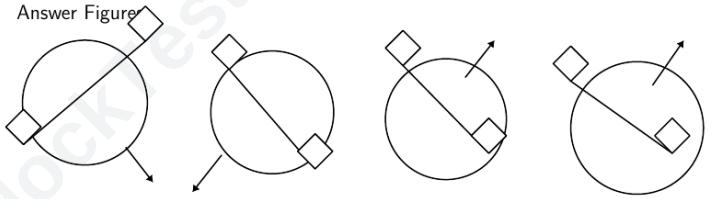
(a) S
(b) Al
(c) Ar
(d) P

Q27. From the given four figures choose the correct mirror image for the Problem Figure when the mirror is on AB line.

Problem Figure



Answer Figure



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

Q28. In the following series, one number is missing as shown by the question mark (?) select the missing number from the given options.

3, 8, 13, 18, ?

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

Q29. How many such letters are there in the below arrangement, each of which is immediately preceded by a number and NOT immediately followed by a letter?

Q @ A 3 R I 4 * 6 T 4 & 4 O 2 ^ $ W S

(a) Four
(b) Two
(c) Three
(d) One

Q30. The tenth element in the Newland's periodic classification resembles the:

(a) First
(b) Fourth
(c) Ninth
(d) Third

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Q31. Which of the following is one of the saltiest lakes in the world?

(a) Caspian sea
(b) Dead sea
(c) Aral Sea
(d) Red sea

Q32. If two Coulomb of charge flows through any cross-section of a conductor in one second, what will be the current flowing through it?

(a) 1/2 Ampere
(b) 2 Amperes
(c) 1/4 Ampere
(d) 1 Ampere

Q33. _____ are the carriers of heredity material.

(a) Germ cells
(b) Genetics
(c) Gametes
(d) Genes

Q34. Consider the given statement true and decide which of the given conclusions logically follow(s) from the statements.

Statements:

1. Some tables are books.
2. All books are chairs.

Conclusions:

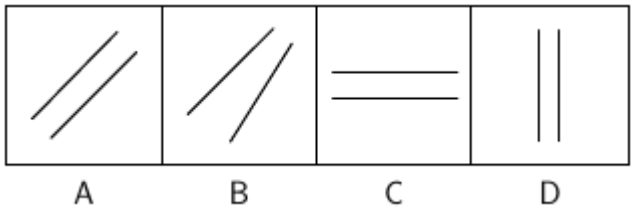
1. Some books are tables.
2. Some chairs are books.

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

Q35. For how many positive integers ‘n’, $n^3 - 8n^2 + 20n - 13$ is a prime number?

(a) 5
(b) 7
(c) 2
(d) 3

Q36. Select the figure that does NOT belong to the following group.



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

Q37. Select the number missing from the given series.

15, 20, 18, 23, ?, 26, 24

(a) 21
(b) 30

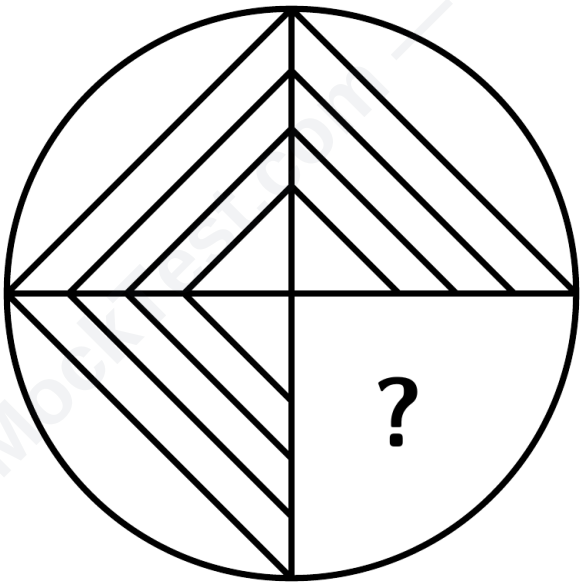
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(c) 24
(d) 28

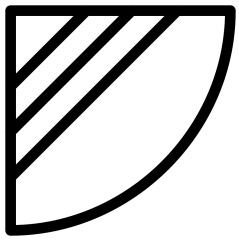
Q38. 10 people can build a wall in 12 days. Six people, each only half as efficient as those in the first group, will be able to complete 3/5 of such a wall in:

(a) 24 days
(b) 25 days
(c) 20 days
(d) 18 days

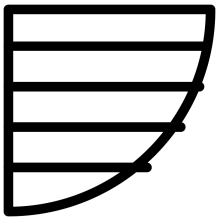
Q39. Select the image that will correctly fit in the blank space of the following figure.



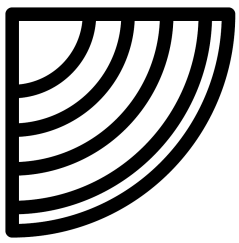
(a)



(b)

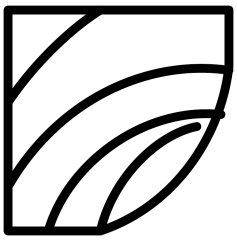


(c)



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(d)



Q40. An element with an atomic number of _____ will form a basic oxide.

(a) 7
(b) 20
(c) 17
(d) 6

Q41. A compressed spring possesses more energy than spring of normal length because the compressed spring has:

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

Q42. The reproductive parts of a flower are:

(a) Calyx and corolla
(b) Corolla and stamens
(c) Stamens and carpels
(d) Calyx and carpels

Q43. Which Indian city was gifted by the Portuguese as dowry to Charles II, the king of England, when he got married to the sister of the King of Portugal in 1662?

(a) Daman
(b) Cochin
(c) Goa
(d) Mumbai

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

Statements:

All carpenters are workers. All workers are hardworking.

Conclusions:

1. All the hardworking people are workers.
2. All the carpenters are hardworking.

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

Q45. Solve the following:

2550 - [510 - {270 - (90 - 80 + 70)}]

(a) 2220
(b) 2230
(c) 2240
(d) 2210

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Q46. In which of the following activities is work NOT done?

(a) Ashwin is walking
(b) Ashwin is climbing a bus
(c) Ashwin is running
(d) Ashwin is standing on the platform

Q47. Which of the following is NOT the use of a concave mirror?

(a) In headlights
(b) As shaving mirrors
(c) In torches
(d) As rear view mirrors

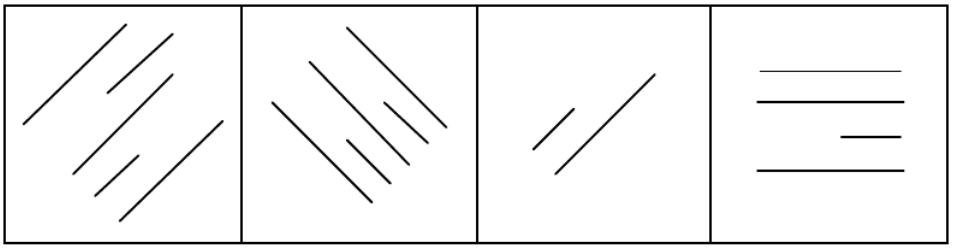
Q48. The diameter of the reflecting surface of a spherical mirror is called a/an _____.

(a) Focus
(b) Aperture
(c) Principal axis
(d) Pole

Q49. Which of the following is a prime number?

(a) 1147
(b) 889
(c) 997
(d) 899

Q50. Select the figure that does NOT belong in the following group.



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

Q51. From a solid cube of side 7 cm, a conical cavity of height 7 cm and radius 3 cm is hollowed out. Find the volume of remaining solid.

(a) 277 cm^3
(b) 272 cm^3
(c) 270 cm^3
(d) 300 cm^3

Q52. Which of the following is used in making perfumes as well as flavoring agents?

(a) Esters
(b) Ethanol
(c) Methanol
(d) Ethanoic acid

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Q53. Who designed the world's lighted satellite 'Kalamsat', which NASA launched and set a new world record?

(a) Riyaz sharook
(b) Shawna Pandya
(c) Madhav Dhekane
(d) Rifath Sharook

Q54. Decide which of the conclusions logically follow(s) from the information given in the statement.

Statements:

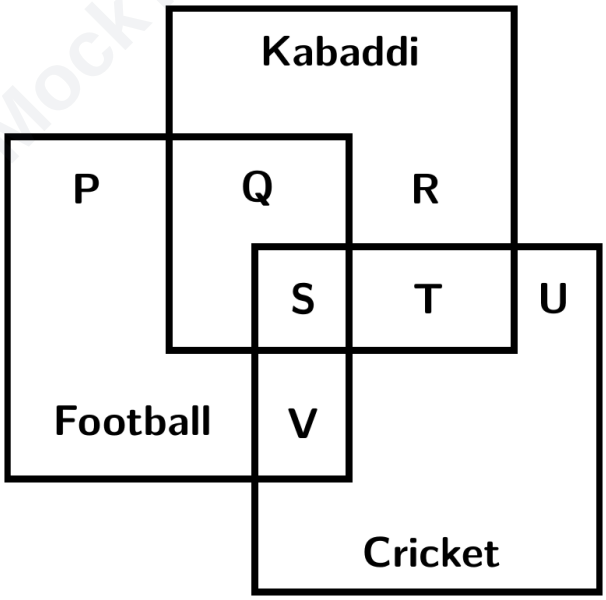
During the rainy season many train accidents occur in hilly regions due to landslides.

Conclusions:

1. Trains should not run during the rainy season.
2. More precautions should be taken by the government to avoid landslides.

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

Q55. According to the given Venn diagram, the total number of students who play cricket as well as Kabaddi but not football is _____.



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

Q56. Yayati sold an item at a loss of 13%, If he had sold it for Rs. 49 more, he would have made a profit of 22%. What should be the selling price of the item to gain a profit of 30%?

(a) Rs. 187.75
(b) Rs. 190
(c) Rs. 182
(d) Rs. 192.30

Q57. A mini-van crosses two people walking at the speed of 4.8 km/h and 6 km/h in the same direction as that in which the mini-van is heading in 4.5 s and 9 s, respectively. What is the length of the mini-van?

(a) 3.5 m
(b) 4 m
(c) 2 m
(d) 3 m

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Q58. Consider a hypothetical planet whose mass and radius are both half that of Earth. If g is the acceleration due to gravity on the surface of Earth, the acceleration due to gravity on the planet will be:

(a) g
(b) g/2
(c) 2g
(d) g/4

Q59. The square root of 4096 is:

(a) 68
(b) 64
(c) 74
(d) 56

Q60. A number was divided in the ratio 3 : 2. When 8 was added to each, the ratio changed to 7 : 5. The greater of the two numbers was:

(a) 48
(b) 27
(c) 69
(d) 42

Q61. The _____ has abundant white fibres.

(a) cartilage
(b) bone
(c) tendon
(d) ligament

Q62. The median of the numbers 3, 1, 1, 5, 2 and 7 is:

(a) 3.5
(b) 2
(c) 3
(d) 2.5

Q63. An element has an atomic number of N. The number of protons in the nucleus of its atom is:

(a) N
(b) W + N
(c) W
(d) W – N

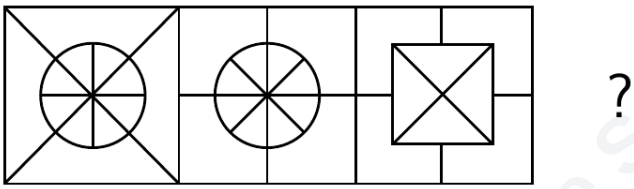
Q64. Saathi deposited Rs. 825 in a bank that promised 8% simple interest per annum. If Saathi kept the money with the bank for 5 years, she will earn an interest of:

(a) Rs. 330
(b) Rs. 480
(c) Rs. 290
(d) Rs. 280

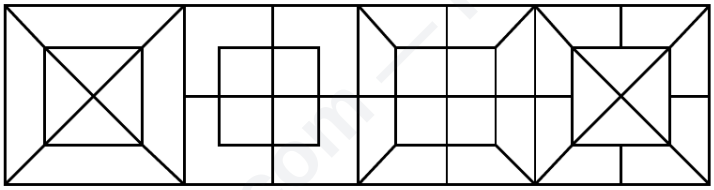
Q65. Choose the correct figure which will replace the question mark.

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Problem Figure



Answer Figures



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

Q66. The SI unit of electric current is _____.
(a) Milliampere
(b) Ampere
(c) Microampere
(d) Volt

Q67. Facing East, X turns 150° clockwise and 105° anti-clockwise. Which direction is X facing now?
(a) South-West
(b) North-West
(c) South-East
(d) North-East

Q68. A box is termed as eraser, an eraser is termed as pen, a pen is termed as stick, and a stick is termed as plant. Then in the exam a student will write with_____.
(a) Eraser
(b) Stick
(c) Plant
(d) Pen

Q69. Which Indian Chief Minister won the 2017 Outlook Speakout Award?
(a) Devendra Fadnavis
(b) Nitish Kumar
(c) Mamata Banerjee
(d) Naveen Patnaik

Q70. Monika's father was 38 years of age when she was born while her mother was 36 years old when her brother four years younger to her was born. What is the difference between the ages of her parents?
(a) 6 years
(b) 4 years
(c) 2 years
(d) 3 years

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Directions

Direction: Study the table given below 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. 500	Rs. 600	Rs. 200
2003	Rs. 3,200	Rs. 300	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

Q71. The average expenditure per year during the period 2001-2006 is _____ (round off the nearest integer).

(a) Rs. 1,075
(b) Rs. 2,032
(c) Rs. 2,035
(d) Rs. 2,034

Q72. The LCM of 15, 18 and 24 is:

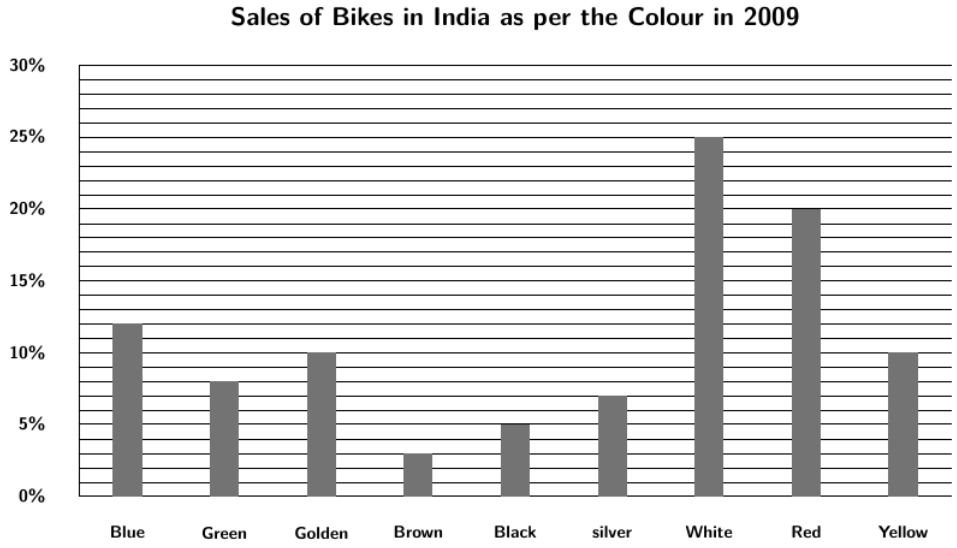
(a) 3
(b) 540
(c) 6
(d) 360

Q73. Which of the following is the prime number series from 1 to 20?

(a) 1, 2, 3, 5, 7, 11, 13, 17, 19
(b) 2, 5, 7, 9, 11, 13, 17, 19
(c) 3, 5, 7, 11, 13, 17, 19
(d) 2, 3, 5, 7, 11, 13, 17, 19

Directions

Direction: A bar graph given below shows the sales of Bike of difference colour. Study the graph carefully and answer the following question.



Q74. If the total number of bikes sold in 2009 was 50000, then by what number was the sales of white bikes less than that of yellow and red bikes put together?

(a) 2,500
(b) 10,000
(c) 3,000
(d) 5,000

Q75. Read the given question and decide which of the following arguments is (are) strong.

Question: Are the best things in life free?

Argument 1: Life gives us so many opportunities for free and yet most of us waste it.

Argument 2: Smiles, friends, family, good talks, good sleep and happy memories are all free.

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

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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