RRB ALP CBT I 29 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. Which actor was honoured with the Kala Ratna Award in 2017?

(a) Irrfan Khan
(b) Shah Rukh Khan
(c) Anupam Kher
(d) Akshay Kumar

Q2. Select the option that depicts the correct water image for the given term.

I N S T 1 T U R 3 I

(a)



(b)



(c)



(d)



Q3. A man starts from point ‘O’, travels 20 km towards East to reach point ‘A’, turns right and travels 10 km to reach point ‘B’, turns right and travels 9 km to reach point ‘C’, turns right and travels 5 km to reach point ‘D’. Turns left and travels 12 km to reach point ‘E’ and then turns right and travels 6 km to reach point ‘F’.

What is the shortest distance between his initial and final points?

(a) √20
(b) √145
(c) √2
(d) 13

Q4. Which of the following can reproduce by fragmentation?

(a) Hydra
(b) Spirogyra
(c) Yeast

(d) Planaria

Q5. The Karnataka government has recently received the approval for purchase of electric vehicles from the Department of Heavy Industries of the Union Government under which scheme?

(a) NAME India subsidised
(b) Pan India subsidised
(c) Rural India subsidised
(d) FAME India subsidised

Q6. What sum will yield Rs. 491.68 as simple interest at 8% per annum for 1 year and 2 months?

(a) Rs. 4364
(b) Rs. 4906
(c) Rs. 5268
(d) Rs. 4758

Q7. Consider the given statements to be true and decide which of the conclusions logically follow(s) from the statements.

Statements:

Some lions are tigers. Some tigers are elephants. All elephants are monkeys. All monkeys are humans.

Conclusions:

1: Some humans are tigers.

2: Some monkeys are tigers.

(a) Only conclusion 2 follows.
(b) Only conclusion 1 follows.
(c) Both conclusions 1 and 2 follow.
(d) Either conclusion 1 or 2 follows.

Q8. The simple interest on a certain sum at 12% per annum for 3 years is Rs. 4,140. What is the compound interest on the same sum at 8% for two years?

(a) Rs. 1,886.50
(b) Rs. 2,012.40
(c) Rs. 1,913.60
(d) Rs. 1,840

Q9. The mass number of an isotope of an element is 298. If its nucleus has 188 neutrons, what is its atomic number?

(a) 188.0
(b) 110.0
(c) 298.0
(d) 488.0

Q10. In 540 grams of glucose, the number of moles present is:

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

Q11. Select the set that does NOT belong in the following group of sets.

(2, 14, 16), (6, 30, 36), (5, 35, 40), (3, 21, 24)

(a) (6, 30, 36)
(b) (2, 14, 16)
(c) (5, 35, 40)
(d) (3, 21, 24)

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Q12. Jai travels from his house to school at a speed of 10 km/hr and reaches late by 5 minutes. If he increases his speed by 3 km/hr, he will reach the school 4 minutes early. What is the distance between his house and the school?

(a) 4.8 km
(b) 2.5 km
(c) 6.5 km
(d) 2 km

Q13. Common metals arranged in order of their decreasing reactivity is known as:

(a) Activity series
(b) Electrolytic reduction
(c) Conductivity
(d) Reactivity

Q14. 5JA8K6G4OC1659NLEPUF

In the above series from left to right without changing the order the number of pairs of terms such that 1^(st) is alphabet and 2^(nd) is a number are:

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

Q15. Priyankur's present age is seven years less than thrice the age of his cousin Rihana. Sixteen years from now Priyankur’s age will be 150% of that of Rihana. What is Priyankur's present age (in years)?

(a) 17
(b) 23
(c) 26
(d) 20

Q16. If in a certain code, QUANTIZING is written as TNAUQGNIZI, then how will EXORCIZING be written in the same code?

(a) CROXEGNIIZI
(b) CROXEGNIZI
(c) CROXGENIZI
(d) CROXEGNIZII

Q17. Which of the following is used in the preparation of vinegar?

(a) Benzoic acid
(b) Methanol
(c) Acetic acid
(d) Ethanol

Q18. If Mr. X has two sisters, Y and Z, and W’s mother is the sister of Y’s father, then W’s mother is X’s _____.

(a) Aunt
(b) Grandmother
(c) Mother
(d) Sister

Q19. A television show lasted for 42/3 hours. If 1/5^(th) of the total time was spent on advertisements, what was the actual duration of the television show?

(a) 311/15 hours
(b) 14/15 hours
(c) 4/15 hours
(d) 27/15 hours

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Q20. The total weight of school bags of 35 students of a class was 449.75 kg. What is the average weight of each school bag if each student carried only one school bag?

(a) 12.75 kg
(b) 12.84 kg
(c) 12.85 kg
(d) 12.95 kg

Q21. Which of the following statements is/are true or false?

Statements:

A. Pea plant was chosen by Mendel to work upon

B. Chromosomes are the carrier of factor

C. Forelimb of human the organ analogous to the wings of birds

(a) Only statement B is true, C and A are false
(b) Only statement A is true, B and C are false
(c) Only statement A and B are true, C is false
(d) Only statement C is true, B and A are false

Q22. Read the following question and decide which of the given statements is/are sufficient.

Question:

Four magicians, U, V, W and X, will perform at a theatre on four consecutive days, each on a different day but not in the same order. On which day will W perform?

Statements:

1. Show starts on the 1^(st) of Feb and X performs on the next day.

2. U doesn't perform on the 3^(rd) of Feb; one of them performs between U and V.

(a) Either 1 or 2 is sufficient to answer the question.
(b) Both 1 and 2 together are sufficient to answer the question.
(c) 2 alone is sufficient while 1 alone is not sufficient to answer the question.
(d) 1 alone is sufficient while 2 alone is not sufficient to answer the question.

Q23. Oxides of metals are basic in nature, that is, they combine with acids to form salt and water. Select the odd metal oxide from the following ones.

(a) MgO
(b) Na2O
(c) CaO
(d) Al2O3

Q24. What is the measure of the smaller of the two angles formed between the hour hand and the minute hand of a clock when it is 6:44 p.m.?

(a) 84°
(b) 62°
(c) 62.5°
(d) 83.5°

Q25. To which dynasty did the first woman ruler of the Delhi Sultanate Razia Sultan belong?

(a) Slave Dynasty
(b) Khilji Dynasty
(c) Lodhi Dynasty
(d) Mughal Dynasty

Q26. India topped the medals tally with how many gold medals in the Track Asia Cup at the IGI Sports Complex in New Delhi on 12^(th)October 2017?

(a) 2
(b) 9
(c) 6

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(d) 7

Q27. If cosecx + cotx = 2, then cosecx = ?

(a) 1.5
(b) 1.25
(c) 1
(d) 2

Q28. In a parallel circuit, if one electrical appliance stops working due to some defect, then all the other appliances:

(a) will keep working double of what they did
(b) will work normally
(c) will not work
(d) will keep working half of what they did

Q29. When 472 pieces of plywood, each 0.23 cm thick, are piled on top of each other, what would be the height of the pile in metre?

(a) 1.856
(b) 1.0856
(c) 108.56
(d) 10.856

Q30. Choose the word which is least like the other words in the group?

(a) Broad
(b) Big
(c) Supreme
(d) Large

Q31. Name the Indian-origin boy in the United Kingdom who became the youngest applicant in a decade to achieve the highest score in the Mensa IQ test, beating geniuses such as Albert Einstein and Stephen Hawking.

(a) Mehul Garg
(b) M. Tenith Adithyaa
(c) Akrit Jaswal
(d) Tanishq Abraliam

Q32. The mean proportional between 0.16 and 0.64 is:

(a) 0.40
(b) 0.48
(c) 0.27
(d) 0.32

Q33. X's rank is 15th from the top, and in total, there were 40 students in the class, then X's rank from the bottom in the class is:

(a) 27
(b) 25
(c) 26
(d) 24

Q34. The given Problem Figure is embedded in one of the given Answer Figures. Which is that Answer Figure?

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Problem Figure



Answer Figures



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

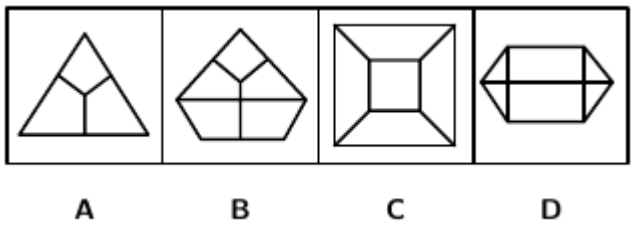
Q35. Which of the following statements is NOT true of Meiosis?

(a) As a consequence of Meiosis, the number of chromosomes is doubled in the resulting cells.
(b) Meiosis takes place in gonads for production of gametes.
(c) Meiosis takes place in two phases.
(d) During Meiosis, the genes of the parent cells are mixed in the resulting cells.

Q36. Which is the first Indian state to ratify the GST Constitution Amendment Bill, recently passed by the Parliament of India?

(a) Assam
(b) West Bengal
(c) Meghalaya
(d) Arunachal Pradesh

Q37. Select the figure that does NOT belong in the following group.



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

Directions

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

Stu/Sub	P	C	B	M
W	70	90	50	85
X	55	80	95	60
Y	60	20	90	40

Z	90	80	40	65

Q38. What is the average marks of the four students in P?

(a) 68.5
(b) 68.25
(c) 68
(d) 68.75

Q39. A man starts from 'O', travels 20 km towards East to reach point 'A', turns right and travels 10 km to reach point 'B', turns right and travels 9 km to reach point 'C', turns right and travels 5 km to reach point 'D', turns left and travels 11 km and stops for some time and travels 1 km to reach point 'E' and then turns right and travels 6 km to reach point 'F'.

What is the shortest distance between point 'A' and point 'D'?

(a) 5√17
(b) √106
(c) √181
(d) 13

Q40. Which of the numbers given below is exactly divisible by 12?

(a) 43688
(b) 57816
(c) 28544
(d) 14632

Q41. A pump can fill a tank in 4 hours, but due to a leak, the tank now gets filled in 5 hours. How long will it take the leakage to empty the tank when it is full?

(a) 9 hours
(b) 4.5 hours
(c) 20 hours
(d) 1 hour

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

How much did Mr. X earn in the year 2000?

Statements:

1. Mr. X earned Rs. 7.000 in 2003, which is 10% more than what he earned in 2000.
2. Mrs. Y, Mr. X's wife, earned half of the amount Mr. X earned, and they together earned Rs. 9.000 in 2000.

(a) Both 1 and 2 are sufficient to answer the question.
(b) Either 1 or 2 is sufficient to answer the question.
(c) 1 alone is sufficient while 2 alone is not sufficient to answer the question.
(d) 2 alone is sufficient while 1 alone is not sufficient to answer the question.

Q43. What is the nationality of Indian actress Alia Bhatt?

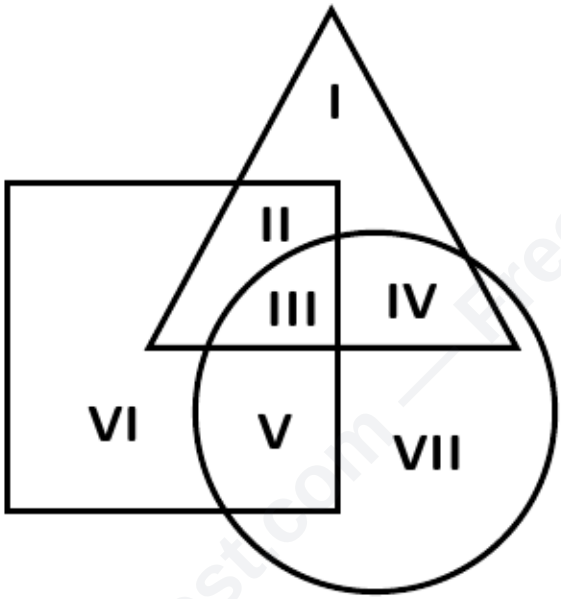
(a) German
(b) Malaysian
(c) French
(d) British

Q44. Is Baking soda chemically different from Baking powder?

(a) Yes, baking soda is Sodium bicarbonate while Baking powder is Calcium Carbonate.
(b) Yes, Baking soda is Sodium Carbonate while Baking powder is Sodium Bicarbonate
(c) No. they are identical chemically
(d) Yes, Baking soda is Sodium bicarbonate while Baking powder is a mixture of Sodium bicarbonate and Tartaric acid.

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Q45.



In the given diagram, the triangle represents the set of people who possess a car; the square represents the set of people who possess a house; and the circle represents the set of people who possess gold. The total number of people who possess only one among the three, that is, house, car or gold, is:

(a) II + IV + V
(b) I + VI + VII
(c) V + VII
(d) IV + I

Q46. If the initial velocity of an object thrown upwards is 14 m/s, then the time taken for the object to reach its highest point will be_____. ($a = 9.8\ m/s^2$)

(a) 1.43 s
(b) 1 s
(c) 1.34 s
(d) 1.5 s

Q47. If a boy covers a distance of 20 metre in 4 minutes with a force of 600 N, then the power consumed by the boy is:

(a) 50 W
(b) 100 W
(c) 80 W
(d) 25 W

Q48. Which of the following is an island state of the USA?

(a) Bali Islands
(b) Fiji Islands
(c) Santorini Islands
(d) Hawaii Islands

Q49. Find the LCM of 34, 85 and 102.

(a) 510
(b) 680
(c) 1020
(d) 340

Q50. 1/300 written as a recurring decimal is:

(a) 0.00bar 3
(b) 0.0bar 3
(c) 0.000bar 3
(d) 0.bar 3

Q51. How many moles are present in 60 g Helium of ?

(a) 12 moles
(b) 15 moles
(c) 10 moles
(d) 25 moles

Q52. Mean temperature of a city for a week is 28°C. If the mean temperature for Monday, Tuesday, Wednesday and Thursday is 27.5°C and the mean temperature for Thursday, Friday, Saturday and Sunday is 29°C, then the temperature recorded on Thursday is:

(a) 31°C
(b) 30°C
(c) 28°C
(d) 29°C

Q53. Select the INCORRECT set of Molecular Formula - IUPAC Name - Common Name from the following options.

(a) C_3H_8OH - Propanol - Propyl Alcohol
(b) C_2H_5OH - Ethanol - Ethyl Alcohol
(c) C_4H_9OH - Butanol - Butyl Alcohol
(d) CH_3OH - Methanol - Methyl Alcohol

Q54. A and B can complete a piece of task together in 12 days, while A alone can do it in 15 days. They start working together but A leaves 10 days before the completion of the task. For how many days did A and B work together?

(a) 10
(b) 11
(c) 8
(d) 9

Q55. With a Concave mirror (Centre of curvature), when an object is placed at the Focus (F), which of the following applies for the image?

(a) Real, inverted, diminished image between C and F
(b) The real, inverted, highly diminished image at F
(c) The real, inverted, highly enlarged image at infinity
(d) Real, inverted image of the same size at C

Q56. Which of the following governments recently launched a free household power connection scheme called ‘Prakash Hai to Vikas Hai’ for the poor in the state to mark former prime minister Atal Bihari Vajpayee’s birthday?

(a) Maharashtra
(b) Uttar Pradesh
(c) Andhra Pradesh
(d) Gujarat

Q57. If + means -, - means ×, × means ÷ and ÷ means + then what will be the value of 16 + 4 – 3 ÷ 8 × 6?

(a) 7
(b) 6
(c) 71/4
(d) 16/3

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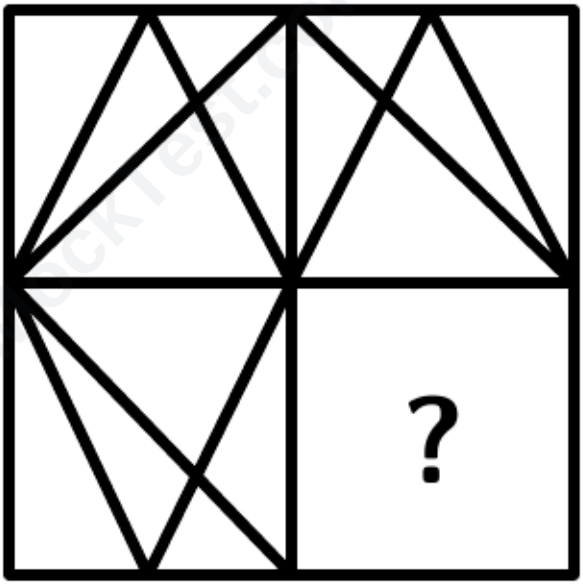
Q58. The base of a triangle is five-sixth of the base of a parallelogram having the same area as that of the triangle. The ratio of the corresponding heights of the triangle to the parallelogram will be:

(a) 5 : 12
(b) 6 : 5
(c) 5 : 3
(d) 12 : 5

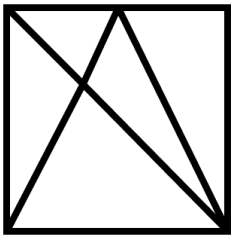
Q59. If sinx = cosx, and x is acute, the value of $2\sin^2 x - 3\cos^2 x$ is:

(a) 1/2
(b) 1
(c) -1
(d) -1/2

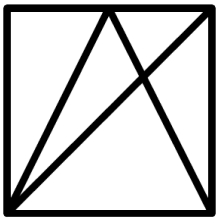
Q60. Select the option that will correctly fit in the blank space in the given figure.



(a)

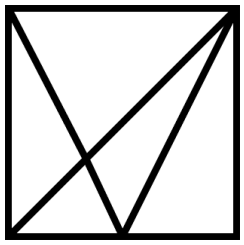


(b)

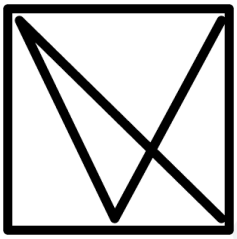


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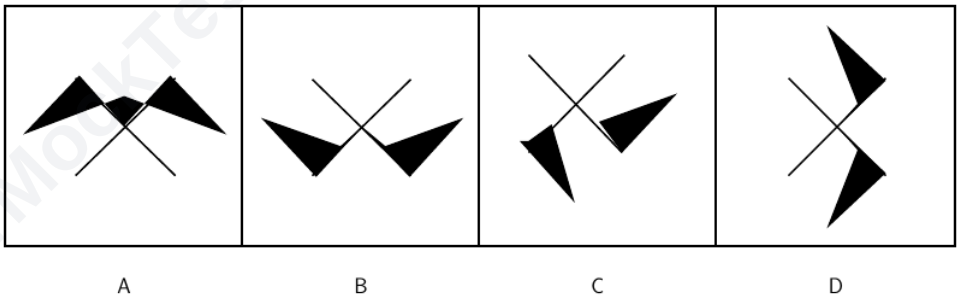
(c)



(d)



Q61. Select the figure that does NOT belong in the following group.



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

Q62. A boat at anchor is rocked by waves whose consecutive crests are 125 m apart. The velocity of the wave of the moving crests is 25 ms^(-1). What is the frequency of the rocking of the boat?

(a) 0.20 (Hz)
(b) 100 (Hz)
(c) 625 (Hz)
(d) 250 (Hz)

Q63. When a bullet is fired from a gun, its potential energy is converted into:

(a) kinetic energy
(b) mechanical energy
(c) heat energy
(d) chemical energy

Q64. What will be the measure of the acute angle formed between the hour hand and the minute hand at 6:43 a.m.?

(a) 78°
(b) 21.5°
(c) 56.5°
(d) 56°

Q65. Select the option that depicts the correct mirror image of the following figure if the mirror is kept at MN.

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(a)



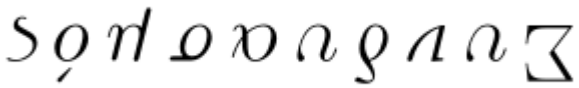
(b)



(c)



(d)



Q66. Which cricket team created history by winning the 2017 Ranji Trophy tournament with a thumping 9-wicket win over Delhi at the Holkar stadium in Indore on the fourth and penultimate day of their final on 1 January 2018?

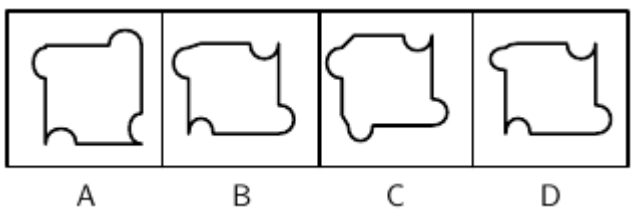
(a) Gujarat
(b) Uttar Pradesh
(c) Hyderabad
(d) Vidarbha

Q67. Select the missing number based on the given related pair of numbers.

27 : 65 ? 64 : _____

(a) 126
(b) 127
(c) 125
(d) 124

Q68. Select the figure that does not belong to the group.

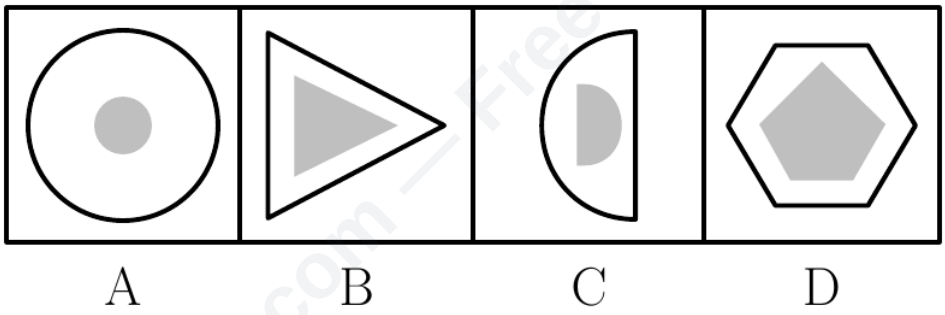


(a) B
(b) C
(c) D
(d) A

Q69. What are elements F, Cl, Br, I and At commonly known as?

(a) Actinoids
(b) Transition elements
(c) Halogens
(d) Rare earth elements

Q70. Select the figure that does NOT belong in the following group.

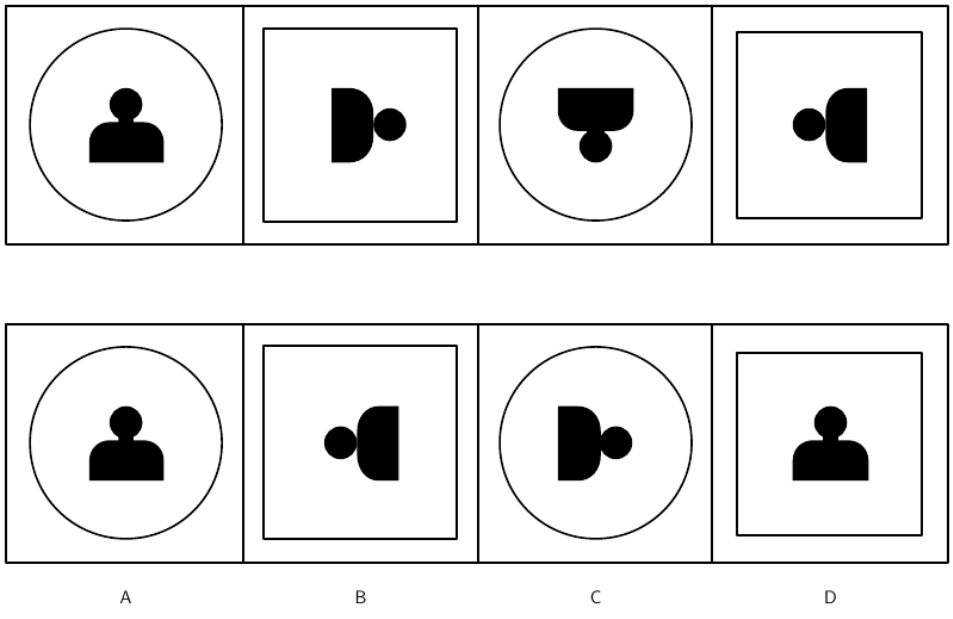


(a) C
(b) D
(c) A
(d) B

Q71. A cyclist covers 500 m in 5 minutes. What distance (in km) would the cyclist cover in half an hour if he travels at the same speed?

(a) 3
(b) 300
(c) 30
(d) 6

Q72. Select the option that will come next in the following figure series.



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

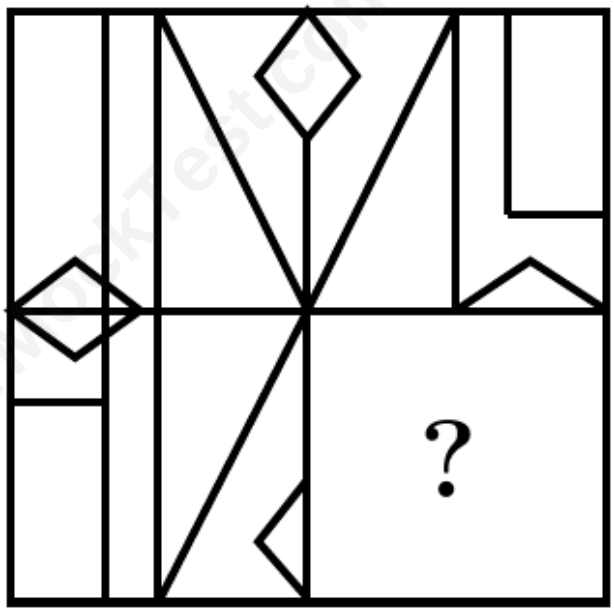
Q73. Which of the following enzymes is secreted by the pancreas?

(a) Maltase
(b) Lactase
(c) Trypsin
(d) Sucrase

Q74. When a force of 10 N acts on a body of the mass of 10 kg that is able to move freely, which of the following statements will apply?

(a) The body moves with a speed of 1 km/s
(b) The body moves with an acceleration of 10 ms^(-2)
(c) The body moves with an acceleration of 1 ms^(-2)
(d) The body moves with a speed of 1 m/s

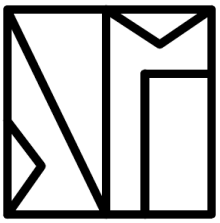
Q75. Select the option that will correctly fit in the blank space in the following figure.



(a)

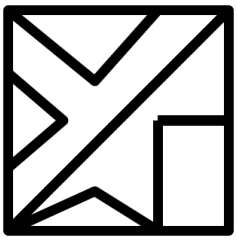


(b)

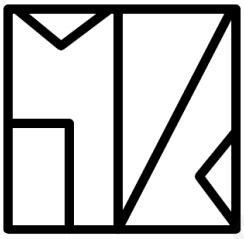


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(c)



(d)



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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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