RRB ALP CBT I 10 Aug 2018 Shift 2 Official Paper (Previous Year Paper)

RRB Assistant Loco Pilot (ALP) • 2018 • 75 questions • 60 minutes • Answer key

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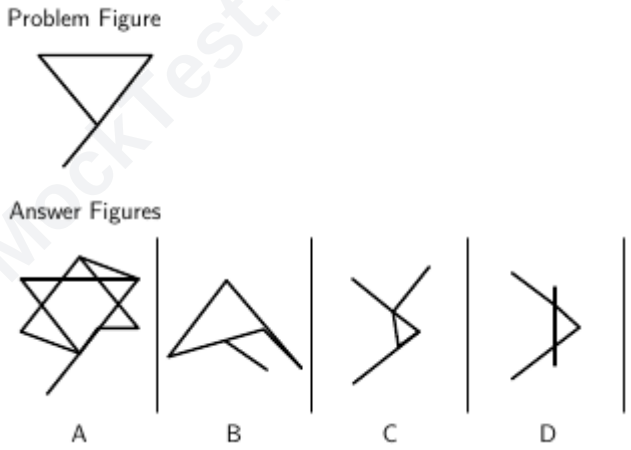
Practise under exam conditions, then review your answers after you submit.

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STAGE I (CBT I)

Q1. The given figure is embedded in one of the given answer figure. Which is that answer figure?



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

Q2. If A = (-14 + 4) and B = 4 - 14, then AB = ?

(a) 100
(b) -100
(c) 0
(d) -1

Q3. What is the angle between the two hands of a clock when the time shown by the clock is 8 p.m? (in degrees)

(a) 220
(b) 120
(c) 60
(d) 50

Q4. The vast amount of sea weeds presents in ocean may produce an endless source of:

(a) Methane
(b) Ocean thermal energy
(c) Sea wave energy
(d) Nuclear energy

Q5. Solve the following.

78 + [-4 + (-3) of {27 + (-18 + (-2))}] = ?

(a) 53
(b) 43
(c) 56
(d) 55.6

Q6. Find the mean proportional between 2 and 98.

(a) 13
(b) 14.5
(c) 16
(d) 14

Q7. The square root of 4624 is:

(a) 72
(b) 66
(c) 64
(d) 68

Q8. Who was appointed as the Chief Secretary of the Delhi Government in December 2017?

(a) Ajeet Vasant
(b) Anshu Prakash
(c) Aditya Negi
(d) Akansha Ranjan

Q9. In the reaction $H_2O_2 + Cl_2 \rightarrow 2HCl + O_2$, H_2O_2 acts as:

(a) An acid
(b) An oxidising agent
(c) A reducing agent
(d) A base

Q10. The area of the square field is 196 sqm. Its each side is:

(a) 16 m
(b) 17 m
(c) 14 m
(d) 13 m

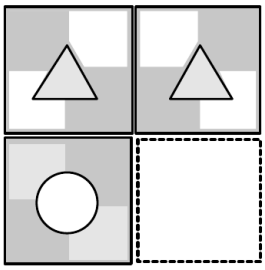
Q11. The first equation of motion gives the relation between _____.

(a) Position and time
(b) Position and velocity
(c) Velocity and time
(d) Velocity and acceleration

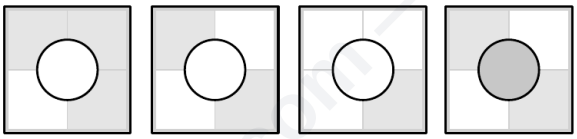
Q12. Choose the correct figure to fill in the blank space.

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Problem Figure



Answer Figures



A B C D

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

Q13. The velocity of light in vacuum is:
(a) 3 × 10^8 ms^(-1)
(b) 2 × 10^8 ms^(-1)
(c) 3 × 10^7 ms^(-1)
(d) 3 × 10^6 ms^(-1)

Q14. A and B can complete a task in 12 days. However, A had to leave a few days before the task was completed and hence it took 16 days in all to complete the task. If A alone could complete the work in 21 days, how many days before the work getting over did A leave?
(a) 7
(b) 5
(c) 9
(d) 3

Q15. Which of the following sportspersons wrote the autobiographical book "Ace Against Odds"?
(a) Saina Nehwal
(b) Anil Kumble
(c) Yuvraj Singh
(d) Sania Mirza

Q16. Who is the captain of the Indian men's volleyball team as of February 2018?
(a) K Udayakumar
(b) Navjit Singh
(c) GR Vaishnav
(d) Gurinder Singh

Q17. Who won the 2017 Women's Hockey Asia Cup held in Japan?
(a) China
(b) India
(c) Japan
(d) South Korea

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Q18. Pipes A, B and C are attached to an empty cistern. While the first two can fill the cistern in 4 and 10 hours, respectively, the third can drain the cistern, when filled, in 6 hours. If all the three pipes are opened simultaneously when the cistern is three-fifth full, how many hours will be needed to fill the cistern?

(a) 36/11
(b) 48/11
(c) 60/11
(d) 24/11

Q19. The difference between the place values of '4' and '2' in the number 833749502 is:

(a) 49998
(b) 30098
(c) 39098
(d) 39998

Q20. Which one of the following is not a borderline element?

(a) Boron
(b) Silicon
(c) Polonium
(d) Bismuth

Q21. In an alloy of German Silver the ratio of copper to zinc was 17 : 7, while that of nickel to zinc was 4 : 3. The ratio of copper to zinc to nickel in the alloy was:

(a) 17 : 21 : 4
(b) 51 : 21 : 28
(c) 68 : 28 : 21
(d) 17 : 28 : 3

Q22. The number of solutions of the pair of linear equations $x + 2y - 8 = 0$ and $2x + 4y = 16$ is

(a) 0
(b) 1
(c) Infinitely many
(d) 2

Q23. Which Indian stock exchange is planning to launch its own Initial Public Offering (IPO)?

(a) Saurashtra Kutch Stock Exchange (SKSE)
(b) National Stock Exchange (NSE)
(c) Cochin Stock Exchange (CoSE)
(d) Bombay Stock Exchange

Q24. An alloy is an example of:

(a) Colloidal solution
(b) Emulsion
(c) Solid solution
(d) Heterogeneous mixture

Q25. Fill in the blank with the most appropriate option.

The pitch of a sound depends on its_____.

(a) Frequency
(b) Wavelength
(c) Amplitude
(d) Timbre

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Q26. If Metal A displaces Metal B from its solution, then Metal A_____.

(a) Is more reactive than B
(b) Is less reactive than B
(c) Is heavier than B
(d) Has the same reactivity as B

Q27. Solve the following:

60 ÷ [(16 - 8 ÷ 2) ÷ 3] = ?

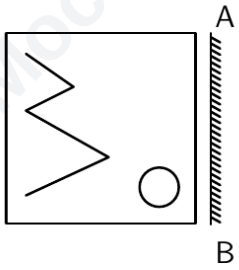
(a) 3
(b) 15
(c) 1
(d) 1/3

Q28. Who took charge as the Chief Minister of Goa after the 2017 elections?

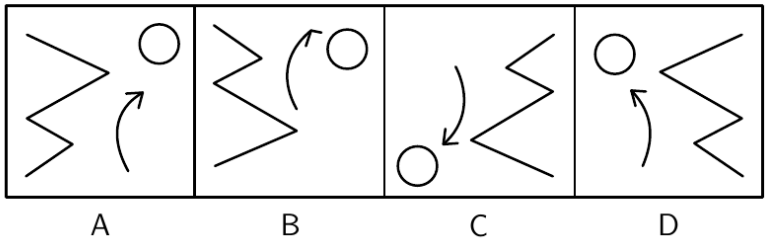
(a) Bharat Vir Wanchoo
(b) Manohar Parrikar
(c) Churchill Alemao
(d) Dayanand Narvekar

Q29. Select the correct mirror image of the problem figure from the given answer figures.

Problem Figure



Answer Figures



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

Q30. Ages of Lalu and Balu are in the ratio of 1 : 2, after 7 years their ages ratio changes to 3 : 5. The elder person age is:

(a) 32
(b) 24
(c) 20
(d) 28

Q31. In sexual reproduction a parent contributes:

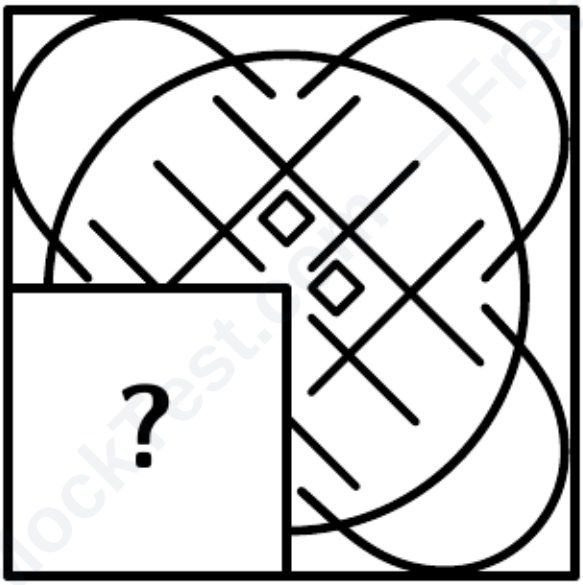
(a) Half of their chromosomes
(b) Three-fourth of their chromosomes
(c) All the chromosomes
(d) One-fourth of their chromosomes

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Q32. To get number 40, the number 62/9 should be multiplied with

(a) 73/7
(b) 35/7
(c) 73/6
(d) 63/7

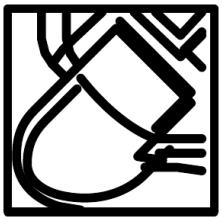
Q33. Select the option that will correctly fit in the blank space in the following figure.



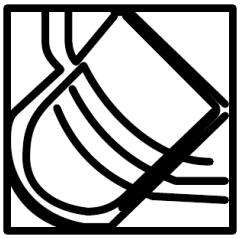
(a)



(b)

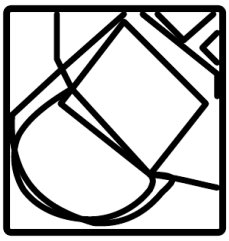


(c)



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(d)



Q34. Which one of the following would be INCORRECT to use?

(a) An atom of a compound
(b) A mole of an element
(c) A mole of a compound
(d) An atom of an element

Q35. Which one of the following animals reproduce by budding and can also carry out regeneration?

(a) Hydra
(b) Plasmodium
(c) Planaria
(d) Yeast

Q36. 'Square' is related to 'Line' in the same way as 'Cube' is related to___.

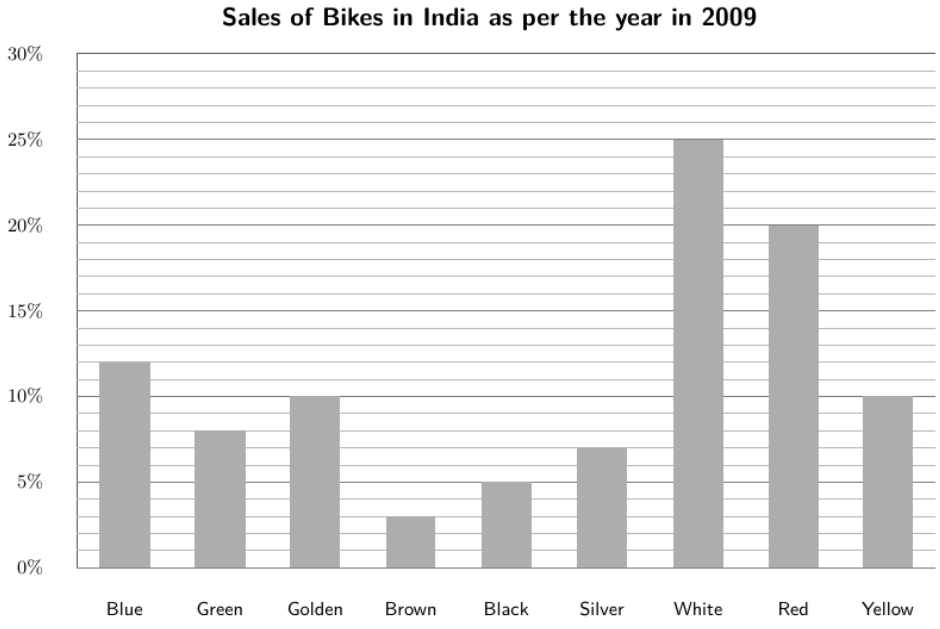
(a) Rectangle
(b) Square
(c) Point
(d) Circle

Q37. What are transition elements?

(a) Elements whose two outermost shells are incomplete
(b) Elements which possess properties of both, metals and non- metals
(c) They have eight electrons in the outermost shell
(d) Elements whose three outermost shells are incomplete

Directions

Direction: Study the following graph and answer the question that follows.



Q38. If the total number of bikes sold in 2009 was 10000 how many more yellow bikes were sold than green ones?

(a) 200
(b) 2000
(c) 1000
(d) 800

Q39. Mechanical energy is the combination of kinetic energy and_____.

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

Q40. Which of the following is the main thinking part of the human brain?

(a) Hind-brain
(b) Cerebellum
(c) Mid-brain
(d) Fore-brain

Q41. Consider the given statement to be true and decide which of the conclusions logically follows (s) from the statements.

Statements:

Some angels are gods.

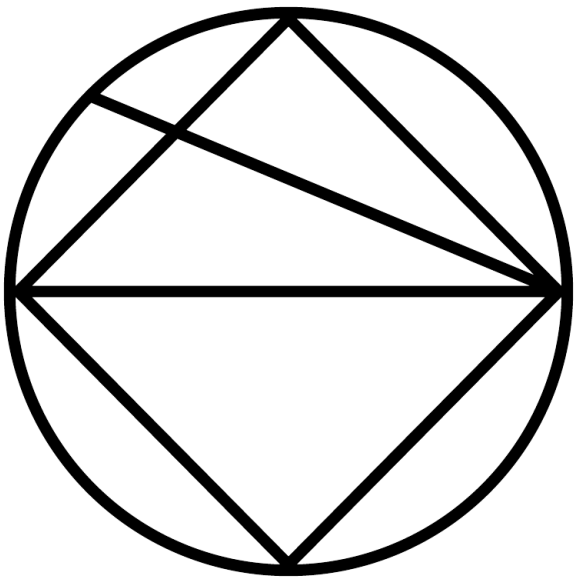
All living being are gods.

Conclusions:

1. Some gods are angels.
2. Some living beings are gods.

(a) Nether 1 nor 2 follows
(b) Only conclusion 2 follows.
(c) Both 1 and 2 follow.
(d) Only conclusion 1 follows.

Q42. Select the option that represents the number of triangles in the given figure is.



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

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Q43. The area of a square is equal to its side, if the side is 1 unit.

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

Q44. Which of the following is the primary sex organ in man?

(a) Prostrate
(b) Testis
(c) Vas deferens
(d) Seminal vesicles

Q45. Who is the author of the Indian English Novel 'When Dimple Met Rishi' published in 2017?

(a) Chetan Bhagat
(b) Rahul Mehta
(c) Sandhya Menon
(d) Nidhi Chanani

Q46. One of the largest salt deserts in the world, the 'Rann of Kutch' is primarily located in which Indian state?

(a) Madhya Pradesh
(b) Gujarat
(c) Telangana
(d) Assam

Q47. The _____ architecture mainly consist Chaityas, Viharas, Stupas and Stambhas.

(a) Maurya
(b) Buddhist
(c) Hindu
(d) Mughal

Q48. Which compound is formed when a Magnesium ribbon is burnt in air?

(a) Magnesium Nitrate
(b) Magnesium Carbonate
(c) Magnesium Oxide
(d) Magnesium Nitride

Q49. If $x^2 + ax + b$, when divided by $x + 3$, leaves a remainder of -1 and $x^2 + bx + a$, when divide by $x - 3$, leaves a remainder of 39, then $a + b = ?$

(a) -14
(b) -38
(c) 14
(d) 38

Q50. If V is the brother of U, U is the sister of W and X is the husband of U, then U is V's_____.

(a) Aunt
(b) Sister
(c) Sister-in-law
(d) Mother

Q51. Consider the given statement as true and decide which of the given conclusions can definitely be drawn from the given statements.

Statements:

Dhoni is a good batsman.

Batsman are smart.

Conclusions:

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1. All smart people are batsman
2. Dhoni is smart.

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

Q52. RB75E%M2W48Q9#B2A$MS

In the above sequence which term is third to the right of the twelfth term from the left end?

(a) #
(b) B
(c) A
(d) 2

Q53. Consider the given statement as true and decide which of the given conclusions can definitely be drawn from the given statements.

Statements:

Some eagles are kites. All kites are birds

Conclusions:

1. Some birds are eagles.
2. Some eagles are birds.

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

Q54. The base of a triangle is half the base of a parallelogram having the same area as that of the triangle. The ratio of the heights of the triangle to the parallelogram will be:

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

Directions

Direction: Parties and the seats won by them are listed in the following table. Study the table given below carefully and answer the following question.

S. No	Party	South	East	West	North
1	A	40	37	35	27
2	B	6	26	76	86
3	C	83	71	4	21
4	D	1	7	3	11

Q55. Based on the given data, the total number of candidates elected is _____.

(a) 534
(b) 524
(c) 535
(d) 543

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Q56. Consider the given question and decide which of the following statements is sufficient to answer the question.

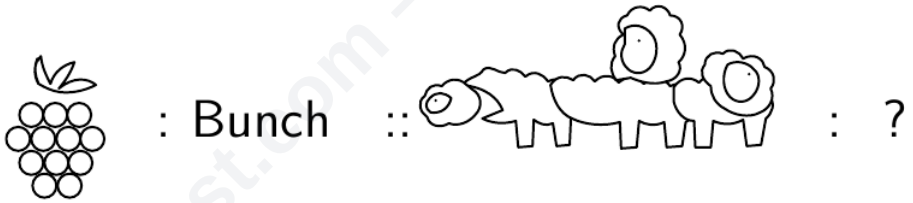
If X scored an average of 50 marks in History, Language and Science, how much did he score in Science?

Statements:

1. his average score in History and Language is 25.
2. He got 30 marks in Language.

(a) Both 1 and 2 are sufficient to answer the given question.
(b) 2 alone is sufficient while 1 alone is not 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.

Q57. Select the missing term based on the given related pair



(a) Crowd
(b) Swarm
(c) Flock
(d) Army

Q58. Simple interest on a certain sum of money for 3 years at 5% per annum is Rs. 5250. What will be the compound interest on that sum at the same rate for the same period?

(a) Rs. 5510.88
(b) Rs. 5516.88
(c) Rs. 5512.88
(d) Rs. 5517.88

Q59. Consider the argument and decide which of the given assumptions is / are implicit.

Argument:

Today is Sunday.

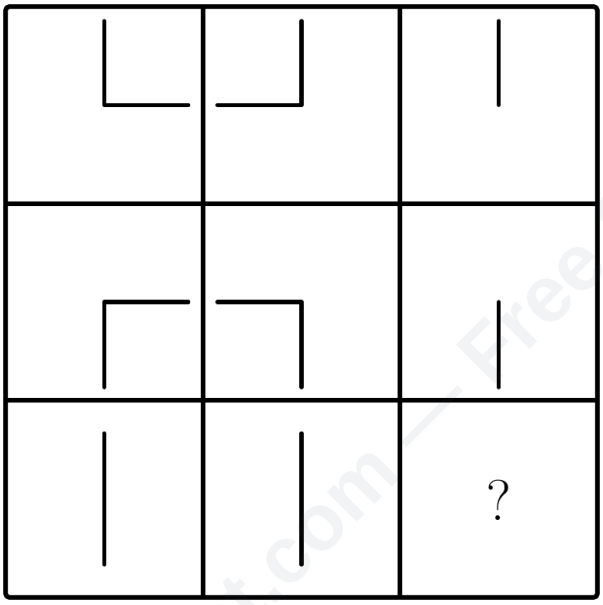
Assumption:

1. Tomorrow is Monday.
2. Today is a holiday.

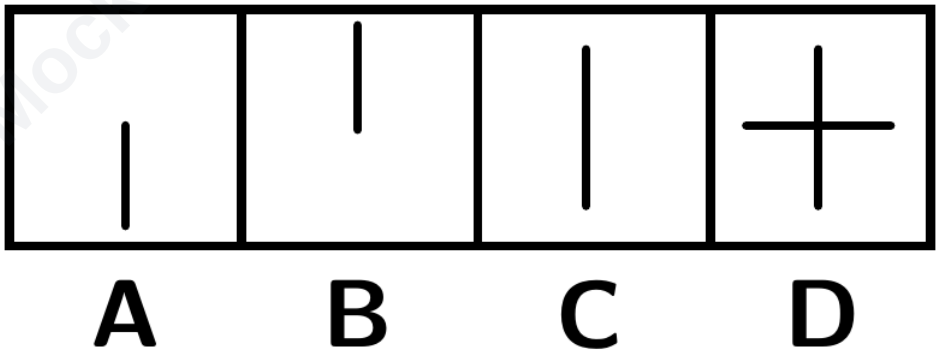
(a) Only assumption 1 follows
(b) Only assumption 2 follows
(c) Neither 1 and 2 follows
(d) Both 1 and 2 follows

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

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Options

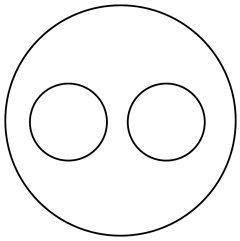


(a) B
(b) D
(c) A
(d) C

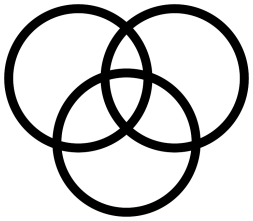
Q61. Select the most suitable Venn diagram to represent the following relationship.

India, Maharashtra and Kerala

(a)

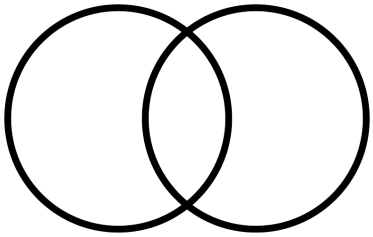


(b)

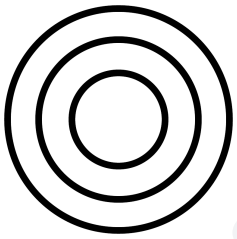


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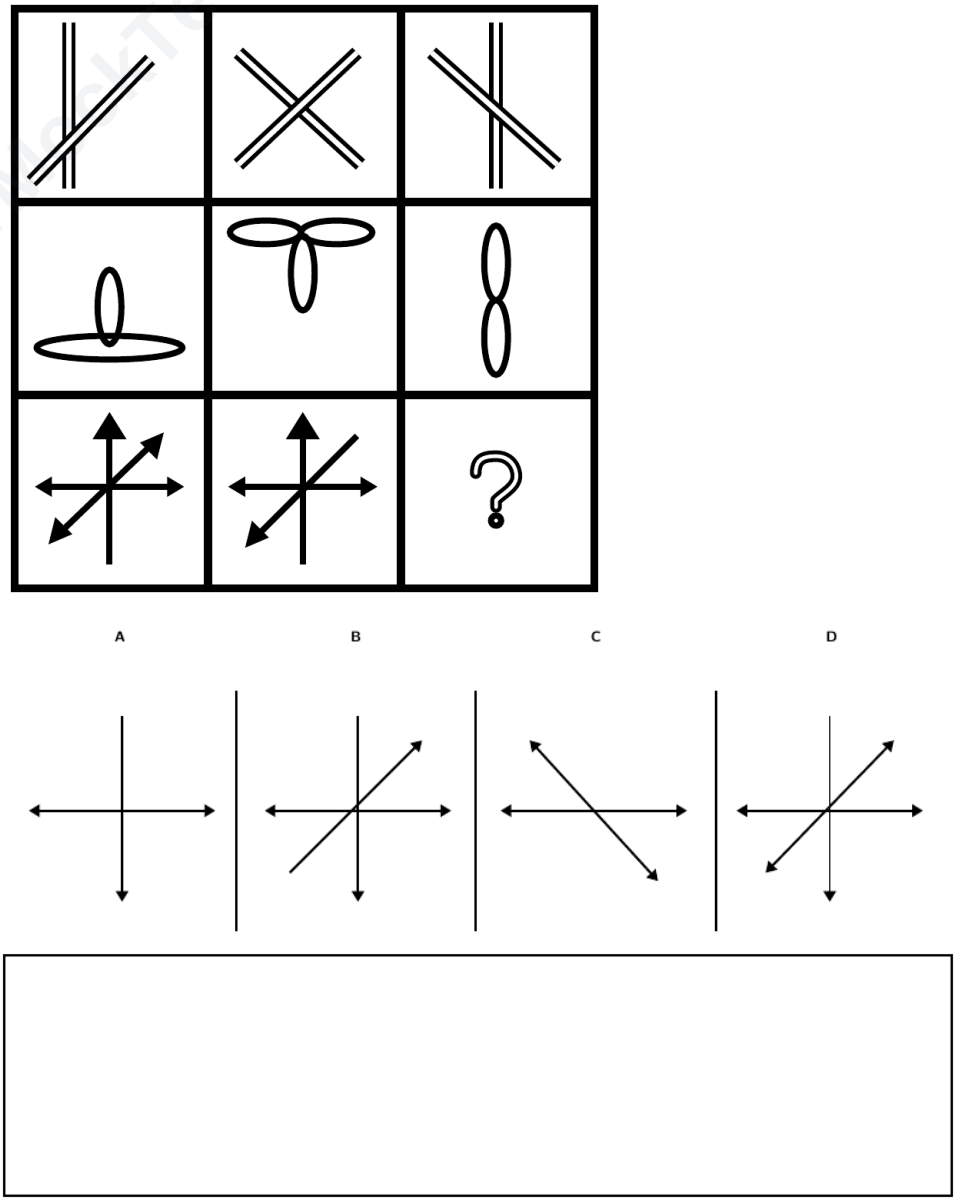
(c)



(d)



Q62. Choose the correct figure that replaces the question mark.



(a) C

(b) A

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(c) D
(d) B

Q63. X drives 30 km east, then turns right and drives 30 km, then turns left and drives 20 km and then turns left and drives 30 km. How far is X from his/her initial position?
(a) 20 km
(b) 30 km
(c) 60 km
(d) 50 km

Q64. Sita's bucket has thrice the capacity as Ramu's bucket. It takes 60 turns for Sita's bucket to fill the empty drum. How many turns it will take for both the buckets of Sita's and Ramu's, having each turn together to fill the empty drum?
(a) 45
(b) 40
(c) 50
(d) 30

Q65. After his stint as the Reserve Bank Governor, which university (in the USA) did Raghuram Rajan join as professor of Finance?
(a) Harvard Business School, Boston
(b) Berkeley Haas, California
(c) Booth School, Chicago
(d) Columbia Business School, New York

Q66. The centre of the reflecting surface of a spherical mirror is called the:
(a) Radius
(b) Centre of Curvature
(c) Pole
(d) Focus

Q67. Surya works 3 times as fast as Ramya and is able to complete a piece of work in 40 days less than the number of days taken by Ramya. Find the time in which they can complete the work together.
(a) 20 days
(b) 15 days
(c) 25 days
(d) 30 days

Q68. The missing letter in the word 'MA_T' is:
(a) R
(b) C
(c) P
(d) O

Q69. Which of the following branches of mathematics was invented by Newton?
(a) Calculus
(b) Logic
(c) Algebra
(d) Geometry

Q70. Which of the following scientist gave the law that governs the force of attraction / repulsion between two charged particles?
(a) Charles Dufay
(b) Michael Faraday
(c) Archimedes
(d) Charles Coulomb

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Q71. In the following series, one letter is missing as shown by the question mark (?). Select the missing letter from the given options.

N, L, J, H,?

(a) F
(b) G
(c) E
(d) B

Q72. (2, 14, 16), (3, 21, 24), (8, 56, 64), (5, 35, 41)

The set that does NOT belong to the group is:

(a) (5, 35, 41)
(b) (2, 14, 16)
(c) (3, 21, 24)
(d) (8, 56, 64)

Q73. From the top of a platform 7 m high, the angle of elevation of a tower was 30°. If the platform was positioned 50√3 m away from the tower, how tall was the tower?

(a) 57 m
(b) 50 m
(c) 25√3 + 7 m
(d) 25√3 m

Q74. The volume of a right circular cone, with a base radius the same as its altitude, and the volume of hemisphere are equal. The ratio of the radii of the cone to the hemisphere is:

(a) 2 : 1
(b) √2 : 1
(c) cbrt2 : 1
(d) 3√3 : 3√2

Q75. Which one of the following is a cation?

(a) Carbonate
(b) Nitrate
(c) Ammonium
(d) Hydroxide

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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