RRB ALP CBT I 17 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. Find the missing term for the related pair of letter clusters.

RAMA : MARA ? SITA : _____

(a) TSAI
(b) TIAS
(c) SIAT
(d) TISA

Q2. Growth hormones function:

(a) Rarely as growth promoters
(b) Sometimes as growth promoters and sometimes as growth inhibitors
(c) Always as growth inhibitors
(d) Always as growth promoters

Q3. The least number to be added to 435 to make it a perfect square is:

(a) 3
(b) 8
(c) 6
(d) 4

Q4. Pointing at X, Y says, “X is the son of the only son of my mother”. Then Y is X’s _____.

(a) Father-in-law
(b) Brother
(c) Father
(d) Grandfather

Q5. Four numbers A, B, C and D are such that their overall average is 16. The average of A and B is 9.5. The average of C and D is:

(a) 21.5
(b) 22.5
(c) 25.5
(d) 23

Q6. Which permanent tissue makes a plant hard and stiff?

(a) Collenchyma
(b) Sclerenchyma
(c) Parenchyma
(d) Aerenchyma

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Q7. If $x^2 + kx + k = 0$ has no solution, then the value of k will satisfy:

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

Q8. A sound of single frequency is called as _____.

(a) Note
(b) Pitch
(c) Tone
(d) Hertz

Q9. What is the square root of 6561?

(a) 77
(b) 89
(c) 79
(d) 81

Q10. If 15^(th) February 2018 is a Thursday. On what day will 18^(th) April 2019 fall?

(a) Saturday
(b) Thursday
(c) Friday
(d) Wednesday

Q11. What is the square root of 576?

(a) 24
(b) 36
(c) 26
(d) 34

Q12. Direction: Study a table given below carefully and answer the following question.

Parties and Seats won					
Serial 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

The party which won the highest number of seats is _____.

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

Q13. Which of the following salts are acidic in nature?

(a) Sodium Carbonate
(b) Sodium Acetate
(c) Ammonium Phosphate
(d) None of the above

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Q14. The rate of discount on an article whose marked price is RS. 170 and the selling price is Rs. 130 is:

(a) 22.45%
(b) 24.26%
(c) 23.53%
(d) 23.60%

Q15. Consider the given statements to be true and decide which of the conclusions logically follow(s) from the statements.

Statements:

Some carpenters are plumbers. Some plumbers are daily wage labourers.

Conclusions:

1. Some plumbers are carpenters.
2. Some daily wage labourers are plumbers.

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

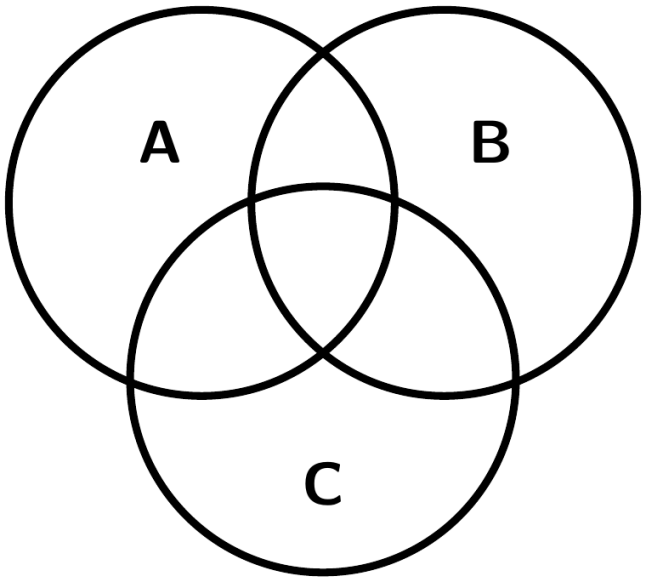
Q16. Identify the odd one out from the following:

(a) Air
(b) Alloy
(c) Milk
(d) Water

Q17. If I is the current through a wire and e is the charge of an electron, then the number of electrons crossing in t seconds will be given by:

(a) e/It
(b) Ie/t
(c) It/e
(d) Ite

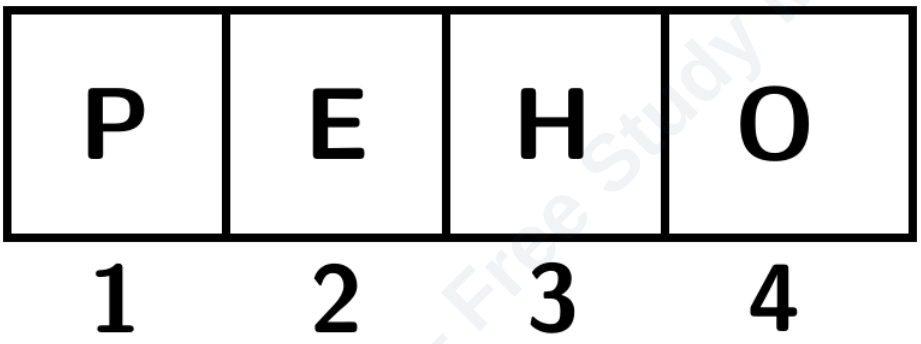
Q18. Select the correct set that represents the following Venn diagram.



(a) Doctors, human beings, cows
(b) Males, females, doctors
(c) Cat, toys, girl
(d) Office boys, government employees, educated person

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Q19. Select the letter which does NOT belong to the group.



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

Q20. 15% of 60 is 45% of _____.

(a) 40
(b) 180
(c) 20
(d) 30

Q21. A broadcasting station transmits waves with a frequency of 71 × 10^4 Hz and a speed of 3×10^8 m/s. The wavelength of the wave is:

(a) 418.8 m
(b) 208.4 m
(c) 422.5 m
(d) 324.6 m

Q22. The essential organs in a flower for reproduction are:

(a) The sepal and stamen
(b) The stamen and pistil
(c) The sepal and petal
(d) The petal and pistil

Q23. If Rs. 87 was divided between James and Radha in the ratio 1 : 2, how much money did Radha get?

(a) Rs. 29
(b) Rs. 57
(c) Rs. 59
(d) Rs. 58

Q24. Which Indian tabla player won the Grammy Award for his collaborative music with ‘The Silk Road Ensemble’ group in 2017?

(a) Sandeep Das
(b) Zakir Hussein
(c) Rimpa Shiva
(d) Yogesh Samsi

Q25. The area of a triangle whose vertices are given by (2, 4), (-3, -1) and (5, 3) is:

(a) 7 sq. units
(b) 14 sq. units
(c) 20 sq. units
(d) 10 sq. units

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Q26. Consider the given statements to be true and decide which of the conclusions logically follow(s) from the statements.

Statements:

No mango is orange.

No orange is apple.

Some mangoes are apple.

Conclusion:

1. No apple is a mango.
2. No apple is an orange.
3. Some oranges are mangoes.
4. All apples are mangoes.

(a) Only conclusion 1 or 3 follow
(b) Only conclusion 1 follows
(c) Only conclusion 2 follows
(d) Only conclusion 2 and 3 follow

Q27. In what time will Rs. 4400 become Rs. 4576 at 8% per annum interest compounded half yearly?

(a) 6 months
(b) 2 years
(c) 7 months
(d) 1 year

Q28. X attempts 94 questions and gets 141 marks. If for every correct answer 4 marks is given, and for every wrong answer 1 mark is deducted, then the number of questions wrongly answered by X is _____.

(a) 47
(b) 40
(c) 57
(d) 45

Q29. Consider the question given and decide which of the following statement(s) is/are sufficient to answer the question.

Five people, P, Q, R, S, and T are standing in a line; who is in the middle?

Statements:

1. Q is to the left of T.
2. S is in between P and T.

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

Q30. $(\sin 30°)/(1 + \cos 30°) + (1 + \cos 30°)/(\sin 30°) = ?$

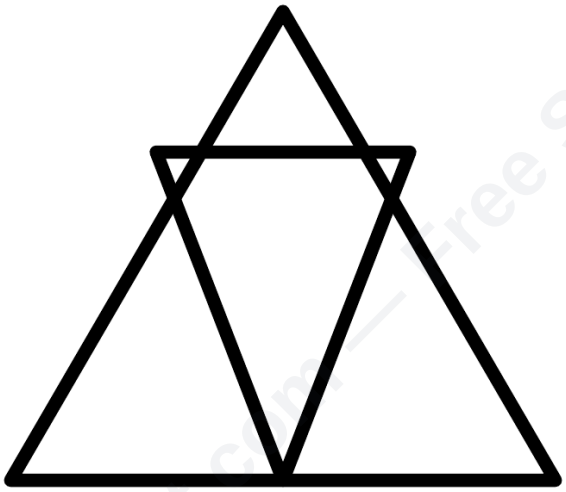
(a) 3
(b) 1
(c) 2
(d) 4

Q31. The energy stored in a dry cell is in the form of _____.

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

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Q32. Select the option that represents the number of triangles in the following figure.



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

Q33. One Watt = ?
(a) Erg/sec
(b) 1 Pascal/sec
(c) 1 m/s
(d) 1 Joule/sec

Q34. The credit for classifying the elements on the basis of their atomic masses goes to:
(a) Dmitri Mendeleev
(b) John Dalton
(c) John Alexander Reina Newlands
(d) Johann Wolfgang Dobereiner

Q35. What will be the force of attraction between two bodies weighing 20 kg and 50 kg, respectively, with a distance of 2 metre between them?
(a) 16.675 × 10^(-11) N
(b) 166.75 × 10^(-10) N
(c) 6.67 × 10^(-11) N
(d) 16.67 × 5^(-10) N

Q36. Consider the given question and decide which of the following statements is sufficient to answer the question.
What is the birth year of Mr. Rajesh?
Statements:
1. At present Mr. Rajesh is 25 years younger to his father
2. Mr. Rajesh's sister who was born on 1974 is 35 years younger to his father.
(a) Statement 2 alone is sufficient while 1 alone is insufficient
(b) Statement 1 alone is sufficient while statement 2 alone is insufficient
(c) Both statements 1 and 2 are sufficient
(d) Either statement 1 or 2 is sufficient

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Q37. Select the number missing from the given number series.

4, 9, 20, 44, ?

(a) 90
(b) 95
(c) 80
(d) 100

Q38. 'P' is the smallest positive integer such that every positive integer N greater than 'P' can be written as a sum of two composite numbers. Then 'P' is:

(a) 11
(b) 6
(c) 10
(d) 3

Q39. Who among the following was NOT one of the 'Nine Gems' of Emperor Akbar's court?

(a) Osman Ali Khan
(b) Raja Todar Mal
(c) Abu'l-Fazl ibn Mubarak
(d) Fakir Aziao-Din

Q40. A pipe can fill a sump with water in 2 hours. Because of a leak, it took 22/3 hours to fill the sump. The leak can drain all the water of the sump in:

(a) 6 hours
(b) 11 hours
(c) 8 hours
(d) 15 hours

Q41. Which Indian won the 2017 French Open Superseries tournament?

(a) Dipankar Bhattacharya
(b) George Thomas
(c) Anilkumar Raju
(d) Srikanth Kidambi

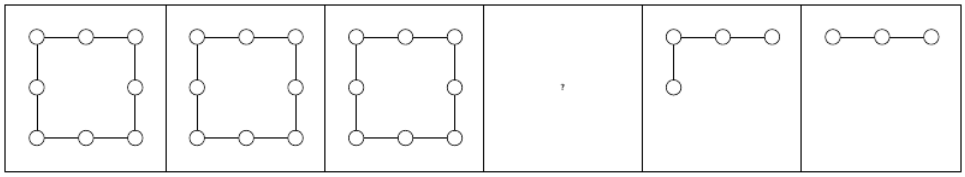
Q42. The tendency of undisturbed objects to stay at rest or to keep moving with the same velocity is called:

(a) Velocity
(b) Force
(c) Momentum
(d) Inertia

Q43. Which of the following metals does NOT react with cold or hot water?

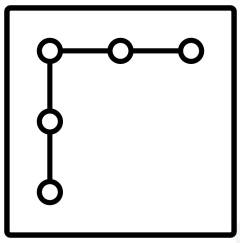
(a) Sodium
(b) Potassium
(c) Calcium
(d) Aluminium

Q44. Select the option that will correctly fit in the blank space in the given figure series.

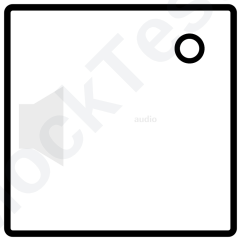


(a)

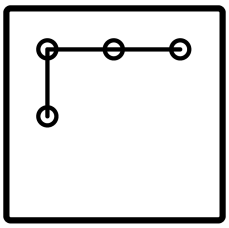
(b)



(c)

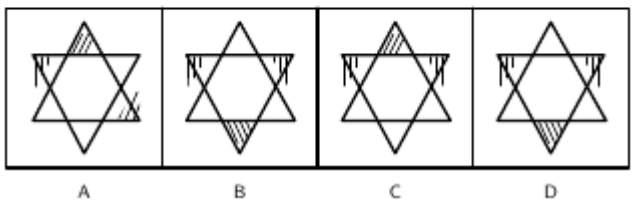


(d)



Q45. From the given four figures choose the correct water image of the below figure.





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

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Q46. The calendar for the year 2020 will be the same for the year:

(a) 2048
(b) 2078
(c) 2040
(d) 2096

Q47. A piece of work can be done by 16 men in 8 days, working 12 hours a day. How many men are needed to complete another work, which is three times the first one, in 24 days working 8 hours a day?

(a) 22 men
(b) 23 men
(c) 25 men
(d) 24 men

Q48. . The pH value increase from 7 to 14 represents a:

(a) Decrease in OH^- ion concentration
(b) Increase in H^+ ion concentration
(c) Decrease in H^+ ion concentration
(d) Increase in OH^- ion concentration

Q49. Decide which of the conclusions logically follow(s) from the information given in the statement.

Statement:

A company cannot make profit unless both, management and employees work together.

Conclusions:

1. The workers should be advised to cooperate with the management.
2. The management must be advised to cooperate with the employees.

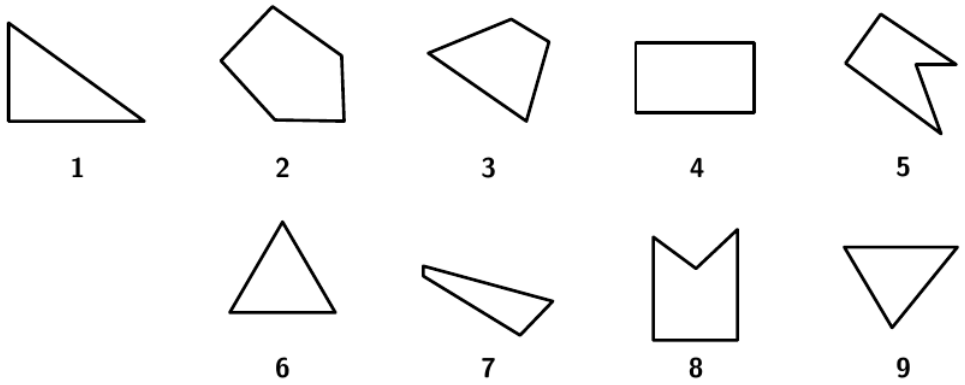
(a) Neither 1 nor 2 follows
(b) Only conclusion 2 follows
(c) Only conclusion 1 follows
(d) Both 1 and 2 follow

Q50. Solve the following:

$36 – [18 – \{14 – (15 – 4 \div 2 \times 2)\}]$

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

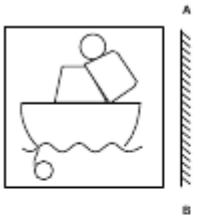
Q51. Use each of the following only once and form three groups. The three groups so formed are:

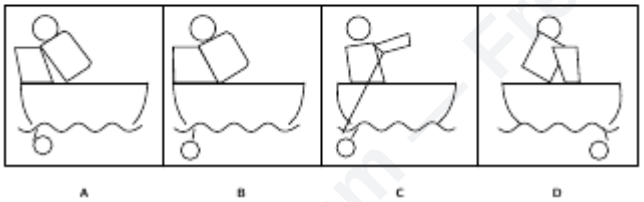


(a) (1, 9, 4), (3, 4, 6) and (2, 5, 8)
(b) (1, 9, 6), (3, 5, 7) and (2, 4, 8)
(c) (2, 9, 6), (3, 4, 7) and (1, 5, 8)
(d) (1, 9, 6), (3, 4, 7) and (2, 5, 8)

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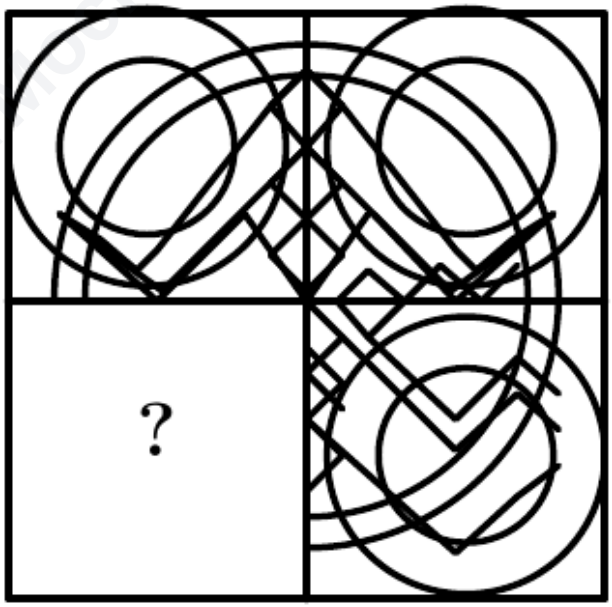
Q52. Which of the Answer Figures is the correct mirror image of the given Problem Figure?



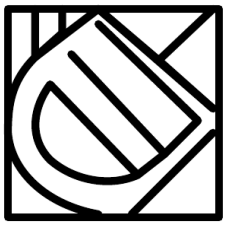


(a) A
(b) C
(c) D
(d) B

Q53. Complete the following figure with the correct option.



(a)

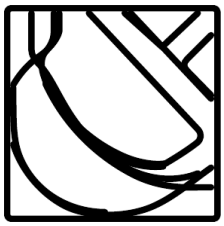


(b)

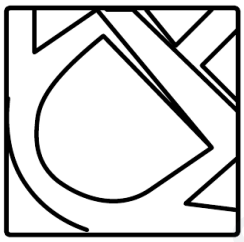


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(c)



(d)



Q54. Two pipes A and B can fill an empty cistern in 18 and 27 hours respectively. Pipe C can drain the entire cistern in 45 hours when no other pipe is in operation. Initially, when the cistern was empty Pipe A and Pipe C were turned on. After a few hours Pipe A was turned off and Pipe B was turned on instantly. In all, it took 55 hours to fill the cistern. For how many hours was Pipe B turned on?

(a) 50
(b) 45
(c) 30
(d) 27

Q55. Consider the argument and decide which of the given assumptions is/are implicit.

Argument:

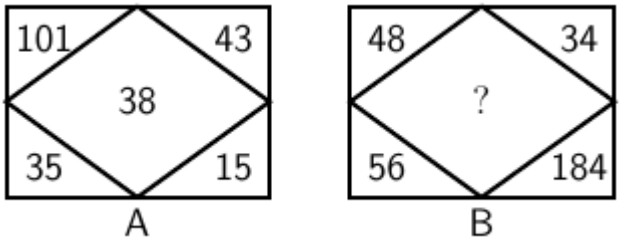
A mother is crying in the hospital as her only son died in a road accident while driving his bike.

Assumptions:

1. The mother thinks it's her son's fault.
2. The mother thinks that God is not with her.

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

Q56. Assuming that the numbers in each of the following figures follow a similar pattern, select the option that can replace the question mark (?) in figure B.



(a) 136
(b) 127
(c) 128
(d) 142

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Q57. Which of the following glows with special colour depending on the nature of gas in the fluorescent tube?

(a) Plasma
(b) Hydrogen
(c) Bose-Einstein condensate
(d) Helium

Q58. Metals are placed on which side of the Modern Periodic Table?

(a) Top row
(b) Right side
(c) Bottom row
(d) Left side

Q59. As of February 2018, who is the India-born CEO of the Nokia company?

(a) Ajaypal Singh Banga
(b) Satya Nadella
(c) Sundar Pichai
(d) Rajeev Suri

Q60. Metal oxides which react with acids, as well as bases, are called:

(a) Acidic oxides
(b) Neutral oxides
(c) Amphoteric oxides
(d) Basic oxides

Q61. In a plant, which of the following is converted into the seed?

(a) Stigma
(b) Ovary
(c) Style
(d) Ovule

Q62. What enables an electric current to flow in a circuit?

(a) The motion of neutrons
(b) The motion of positrons
(c) The motion of protons
(d) The motion of electrons

Q63. Which Indian chief minister was awarded the ‘Transformative Chief Minister Award’ by US-India Business Council (USIBC) in 2017?

(a) K. Chandrashekhar Rao
(b) Naveen Patnaik
(c) Chandrababu Naidu
(d) Siddaramaiah

Q64. How much does one need to add to 2/3 to obtain 3/2?

(a) 4/9
(b) 5/6
(c) -1
(d) 1.5/6

Q65. If ABCD is a Cyclic Quadrilateral, then the value of $\cos^2 A - \cos^2 B - \cos^2 C + \cos^2 D$ is:

(a) -1
(b) 1
(c) 0
(d) 2

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Q66. If all the letters “D E M N” are arranged to form a meaningful word, then the last letter of the word will be:

(a) E
(b) M
(c) N
(d) D

Q67. Which Indian-American is the chairman of the prestigious Federal Communications Commission (FCC) of the United States as of March 2018?

(a) Neomi Rao
(b) Seema Verma
(c) Neil Chatterjee
(d) Ajit Pai

Q68. Who is the author of the Indian English Novel ‘Sita: Warrior of Mithila’ published in 2017?

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

Q69. Select the missing term from the related pair of letter clusters.

BEAK : EIFQ ? SAIL : _____

(a) RENV
(b) VREN
(c) VENR
(d) VERN

Q70. Which Indian state is the largest producer of Soyabean?

(a) Himachal Pradesh
(b) Andhra Pradesh
(c) Arunachal Pradesh
(d) Madhya Pradesh

Q71. Direction: Study a table given below carefully and answer the following question. Parties and the seats won by them are lifted in the following table.

Parties and Seats won					
Serial 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

Party B won the largest number of seats from which area?

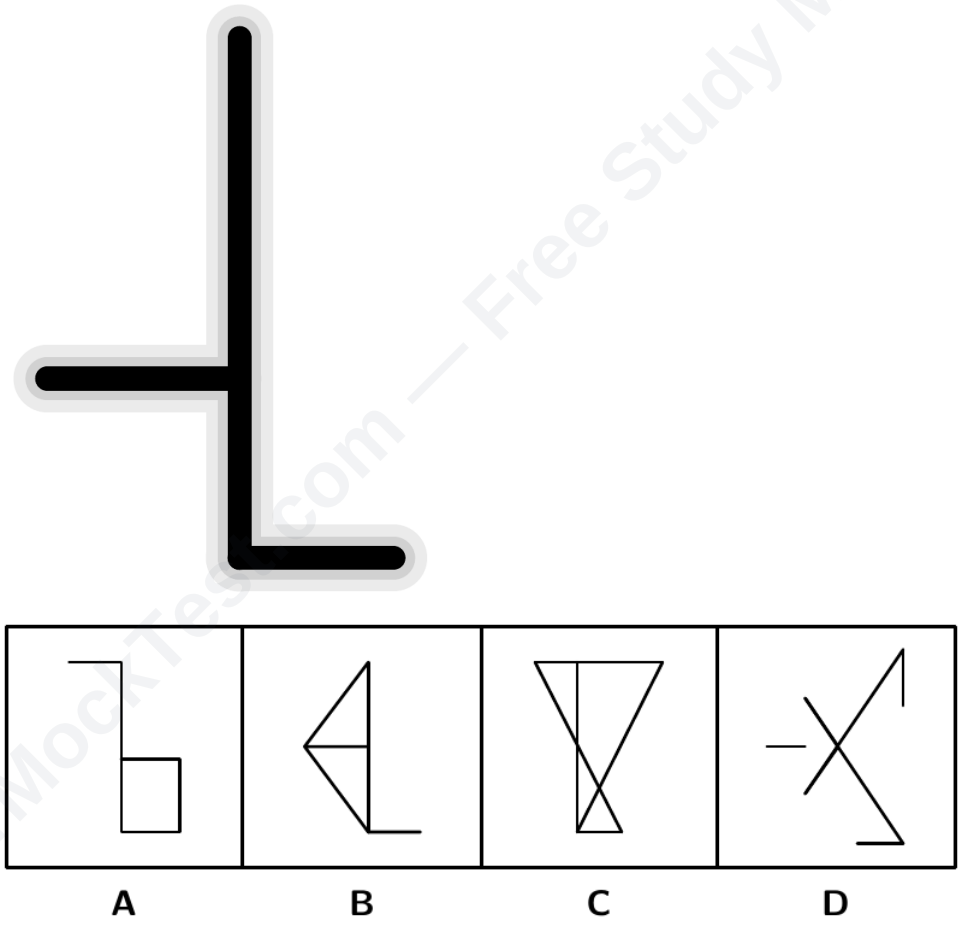
(a) North
(b) South
(c) West
(d) East

Q72. In the series 5442673314884743581, the number that is sixth to the left of the seventh term from the right is:

(a) 7
(b) 3
(c) 1
(d) 4

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Q73. The given Problem Figure is embedded in one of the given Answer Figure. Which is that Answer Figure?



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

Q74. As of 2018, who is the CEO and president of MasterCard?

(a) Waris Ahluwalia
(b) Ajaypal Singh Banga
(c) Prabhjot Singh
(d) Darsh Singh

Q75. Which team did India defeat in the final of the 2017 Men's Asia Cup Hockey to claim the title?

(a) China
(b) Bangladesh
(c) Malaysia
(d) Pakistan

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

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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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