RRB ALP CBT I 20 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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STAGE I (CBT I)

Q1. Oparin's theory about 'Origin of life' is related to _____.

(a) chemical evolution
(b) biological evolution
(c) physical evolution
(d) artificial evolution

Q2. Which Indian economist wrote the 2017 book 'I Do What I Do'?

(a) Amartya Sen
(b) Urjit Patel
(c) Manmohan Singh
(d) Raghuram Rajan

Q3. Consider the given question and decide which of the following statements is sufficient to answer the question.

What is the code for PQR?

Statements:

I. ABC represents BCD; DEF represents EFG.

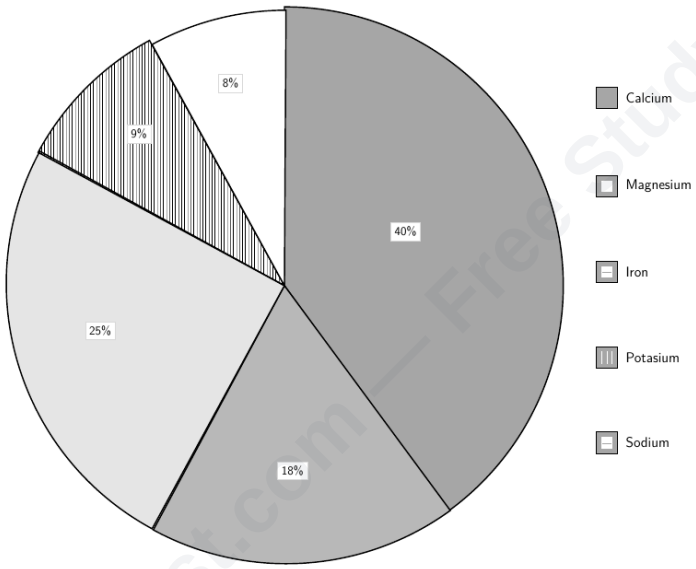
II. LMN represents MNO; OPQ represents PQR.

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

Directions

Direction: The given Pie chart shows the distribution of minerals in the human body, study the chart carefully and answer the following question.

Distribution of various Minerals in Human Body



Q4. Based on the given data, what is the ratio of calcium to iron found in the human body?

(a) 3 : 5
(b) 5 : 8
(c) 3 : 2
(d) 8 : 5

Q5. Shams invested Rs. 4000 at 10% per annum compound interest. After n years, Shams received Rs. 1324 more, Find the value of n.

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

Q6. Which of the following is necessary to maintain the number of individuals of species and to prevent their extinction?

(a) Reproduction
(b) Circulation
(c) Digestion
(d) Respiration

Q7. What product is formed when electricity is passed through an aqueous solution of sodium chloride?

(a) Sodium oxide
(b) Sodium hydroxide
(c) Sodium and chlorine
(d) Sodium and water

Q8. A force 20 N displaces an object through 2 m and does a work of 20 J. The angle between the force and displacement is:

(a) 90°
(b) 0°
(c) 30°
(d) 60°

Q9. The ages of A and B differ by 16 years. If 6 years ago, the elder one was 3 times as old as the younger one, find the present age of the younger between A and B?

(a) 15 years
(b) 11 years

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(c) 12 years
(d) 14 years

Q10. If the edge of a cube is increased by 4 cm, the volume will increase by 988 cm^3. Then what is the original length of each edge of the cube?
(a) 8 cm
(b) 6 cm
(c) 7 cm
(d) 9 cm

Q11. The S.P. of a washing machine is 11/4 of its C.P. Find the gain percent.
(a) 20%
(b) 30%
(c) 25%
(d) 331/3%

Q12. What is the name of the new Android App that has been launched by Sachin Tendulkar in 2017?
(a) 100MB
(b) Sachin
(c) SRT
(d) Aamchi Mumbai

Q13. Ice floats on water because its density is _____.
(a) more than water
(b) zero
(c) same as water
(d) less than water

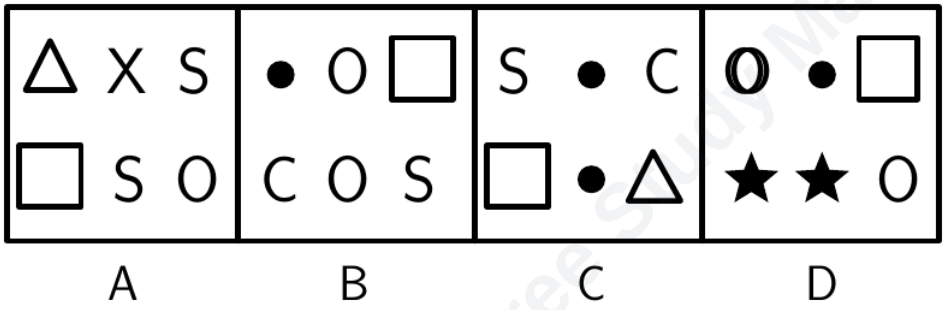
Q14. The sum of two fraction is 19/20, one of them is 3/4. What is the other fraction?
(a) 1/12
(b) 1/5
(c) 1/10
(d) 1/1

Q15. A tanker can fill a cistern in 12 hours. After half the cistern is filled, 2 more similar tankers are opened. What is the time taken to fill the remaining half of the tank?
(a) 3 h
(b) 1 h 30 min
(c) 2 h
(d) 1 h 45 min

Q16. Which of the following gases makes bread or cake rise making them soft and spongy?
(a) CO2
(b) O2
(c) H2
(d) CO

Q17. Select the option that does NOT belong in the following figure series.

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

Q18. What is the amount of work done when a body moves under a force of 1 N a distance of 1 metre in the direction of the force?

(a) 100 Joules
(b) 1 Joule
(c) 10 Joules
(d) 0.01 Joules

Q19. Consider the given statements to be true and decide which of the conclusions logically follow(s) from the statements.

Statements:

All boys are girls. All girls are monkeys.

Conclusions:

1. All monkeys are boys.
2. All boys are monkeys.

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

Q20. Why does a sprinter keep running even after crossing the finishing line?

(a) The inertia of rest takes some time to make him stop.
(b) The inertia of motion keeps him running.
(c) He wants to make sure that he crosses the line.
(d) The friction between his shoes and the ground causes him to move beyond the line.

Q21. Which team won the 2016 Champions Trophy Men's Hockey tournament defeating India in the finals in London?

(a) Netherlands
(b) Spain
(c) Australia
(d) USA

Q22. In the Modern Periodic Table, a zig-zag line separates _____.

(a) metals from non-metals
(b) metals from metalloids
(c) non-metals from metalloids
(d) metals from halogens

Q23. The sum of 4/7 and 7/4 is:

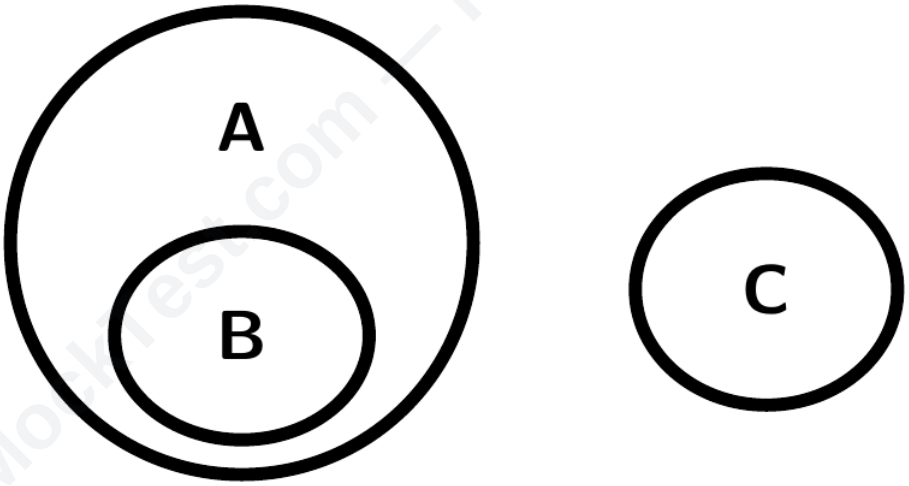
(a) 33/28
(b) 33/14
(c) 25/14

(d) 65/28

Q24. A and B can complete a task in 10 days, B and C can complete it in 15 days while C and A can do the same task together in 12 days. How many days will they together take to complete the task?

(a) 5
(b) 8
(c) 6
(d) 4

Q25. Select the correct set that represent the following Venn diagram.



(a) Grass-eating animals, cows, deer
(b) Grass-eating animals, goat, buffalo
(c) Flesh-eating animals, tigers, cows
(d) Flesh-eating animals, tigers, lions

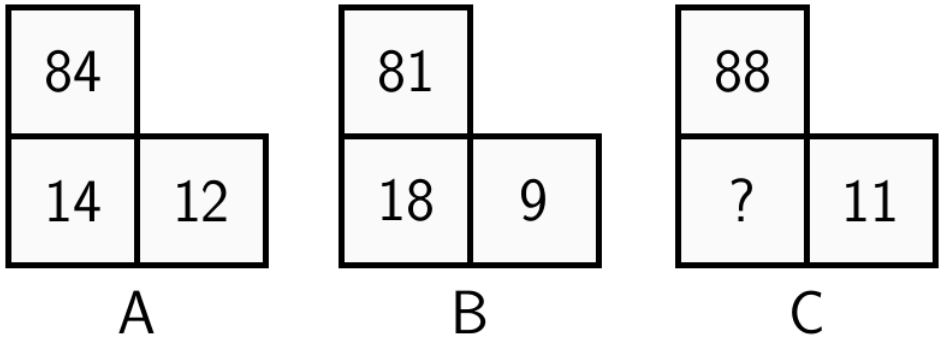
Q26. Nitin ranks 23^(rd) from the top in a class of 42. What will be his rank from the last?

(a) 27^(th)
(b) 25^(th)
(c) 20^(th)
(d) 23^(th)

Q27. The repeated reflection that results in persistence of sound is called _____.

(a) reverberation
(b) echo
(c) rarefaction
(d) reflection

Q28. 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 C.



(a) 61
(b) 21
(c) 16
(d) 81

Q29. Which of the following will yield a recurring decimal?
(a) 9/90
(b) 9/20
(c) 9/70
(d) 9/40

Q30. Gurinder Chadha, a Britisher of Indian-origin, has been honoured with the Sikh Jewel Award for 2017. In what line is Gurinder famous?
(a) Film-making
(b) Athletics
(c) Journalism
(d) Medicine

Q31. If Y is the brother of X, Y is son of Z, Z's father is X's _____
(a) Father-in-law
(b) Grandfather
(c) Father
(d) Uncle

Q32. Select the option that is different from the remaining three alternatives.
(a) xyzw
(b) mnol
(c) ponm
(d) ghif

Q33. Consider the given question and decide which of the following statements is sufficient to answer the question.
What day is the 14^(th) of a given month?
Statements:
1. The last day of the month is Sunday.
2. The fourth Saturday of the month is 25^(th).
(a) Statement 2 alone is sufficient while statement 1 alone is insufficient.
(b) Either statement 1 or 2 is sufficient.
(c) Both statements 1 and 2 are sufficient.
(d) Statement 1 alone is sufficient while statement 2 alone is insufficient.

Q34. If the number 4x315 is divisible by 3, where x is a digit, what can be the sum of all such values of x?
(a) 16
(b) 14
(c) 15
(d) 11

Q35. The sum of 17 observations of a data is (496 + x). if the mean of the data is x, then the value of x is.
(a) 27
(b) 31
(c) 25
(d) 33

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Q36. If Kamala is 50 m south-west of Neeta, and Ria is 50 m south-east of Neeta, then Ria is in which direction with respect to Kamala?

(a) North-west
(b) West
(c) East
(d) North-East

Q37. If a current of 1.5 A is maintained in a resistor of 10 Ohm, then the energy dissipated in the resistor in 1 minute will be:

(a) 1350 J
(b) 15 J
(c) 135 J
(d) 22.5 J

Q38. Consider the argument and decide which of the given assumptions is (are) implicit.

Argument:

The present government had reduced the base price for auctioning for the 2G spectrum.

Assumptions:

1. Next time price will reduce further.

2. Last time the auction was not good.

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

Q39. Consider the given question and decide which of the following statements is sufficient to answer the question.

All natural numbers are whole numbers?

Statements:

(I) All natural numbers plus 0 are called whole numbers.

(II) Whole numbers are different from natural numbers.

(a) alone is sufficient while (I) alone is not sufficient to answer the question.
(b) Neither (I) or (II) is sufficient to answer the question.
(c) (I) alone is sufficient while (II) alone is not sufficient to answer the question.
(d) Both (I) or (II) is sufficient to answer the question.

Q40. Which actor-turned-politician was a Lok Sabha Member from Ahmedabad (East) constituency in 2019?

(a) Dharmendra
(b) Paresh Rawal
(c) Shatrughan Sinha
(d) Hema Malini

Q41. A fan was sold for Rs. 3600 at a loss of 10%. What would be the gain or loss percent if it was sold for Rs. 4200?

(a) Loss 5%
(b) Gain 5%
(c) Gain 10%
(d) Loss 10%

Q42. One of the most destructive volcanoes in recent times has been the Kilauea volcano. Where is it located?

(a) Spain
(b) Japan
(c) Vietnam
(d) Hawaii

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Q43. Select the related word from the given alternatives.

JUMBUCKS : SKCUBMUJ ? SHIPJACK

(a) KCAIJPHS
(b) KCAJIPHS
(c) KCASPHIS
(d) KCAJPIHS

Q44. Which of the following metals is NOT obtained by reduction using carbon?

(a) Zinc
(b) Sodium
(c) Iron
(d) Copper

Q45. If $x^2 + ax + b$, when divided by $x - 5$, leaves a remainder of 34 and $x^2 + bx + a$, when divided by $x - 5$, leaves a remainder of 52, then $a + b = ?$

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

Q46. The quantum theory of light was given by _____.

(a) Einstein
(b) Planck
(c) Newton
(d) Faraday

Q47. Who is the Home Minister of India as of February 2018?

(a) Sushma Swaraj
(b) Rajnath Singh
(c) Arun Jaitley
(d) Narendra Modi

Q48. Which Mughal Emperor was deported to Rangoon by the British?

(a) Bahadur Shah Zafar
(b) Bahadur Shah I
(c) Shah alam II
(d) Bahadur Shah III

Q49. In the first 10 terms and the last 10 terms of the given expression are interchanged in such a way that the first term is interchanged with the last, the second with the second last, the third with the third last and so on, what will the fifth term from the right be in the new arrangement?

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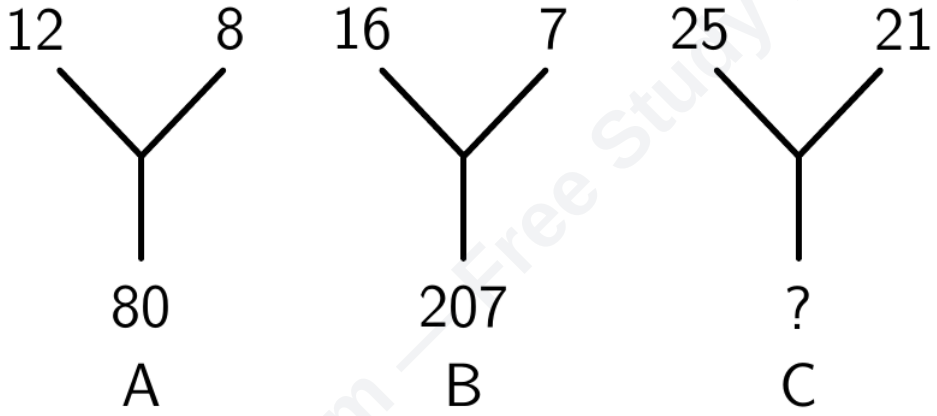
(a) 2
(b) E
(c) 5
(d) A

Q50. What is the number of atoms constituting a molecule known as?

(a) Isotopes
(b) Atomic mass
(c) Atomicity
(d) Atomic number

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Q51. 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 C.

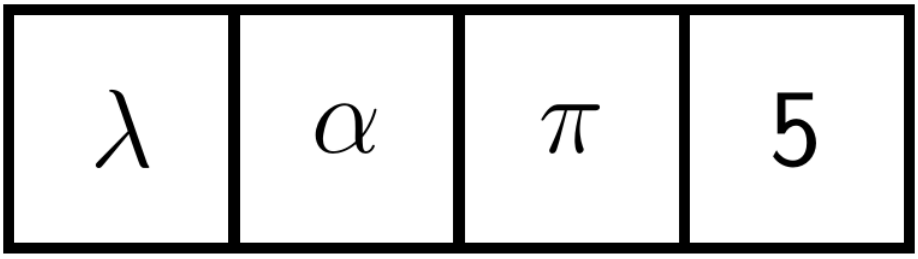


(a) 241
(b) 210
(c) 184
(d) 321

Q52. The number of diagonals in a decagon is:

(a) 33
(b) 39
(c) 40
(d) 35

Q53. Select the odd character out of the following series.



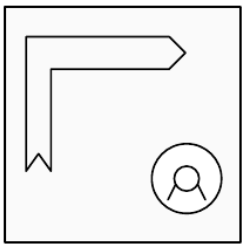
(a) 5
(b) α
(c) λ
(d) π

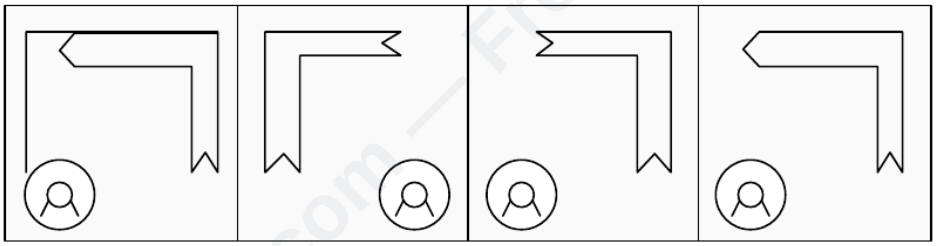
Q54. The two roots of a quadratic equation are given as x = -2/3 and x = 1/2. The equation can be written as:

(a) (2x - 1) (3x + 2) = 0
(b) (2x + 1) (3x + 2) = 0
(c) (2x - 1) (3x - 2) = 0
(d) (2x + 1) (3x - 2) = 0

Q55. Select the option that is correct mirror image of the following figure.

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A B C D

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

Q56. The ratio of the number of marbles that Joyee and Minati had was 5 : 6 while the ratio of the number of marbles that Jacob and Minati had was 5 : 9. What is the ratio of the number of marbles that Joyee and Jacob had?

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

Q57. In the following series, two terms are missing as shown by the question marks (?). Select the missing terms from the given options.

I-10, L-13, O-16, ?, ?, X-25

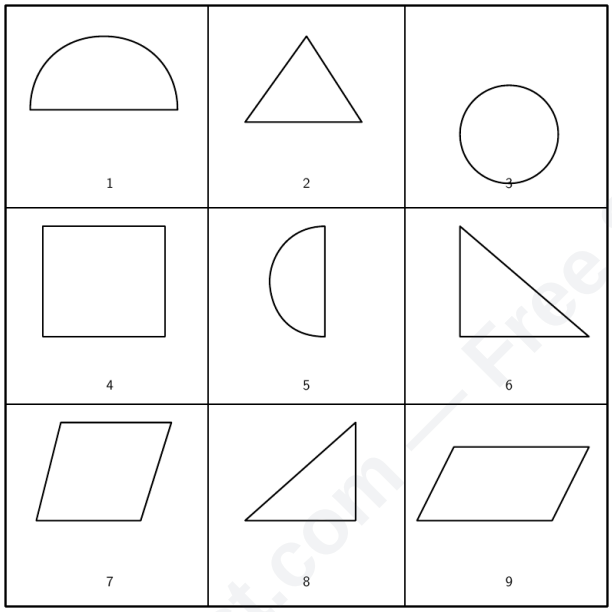
(a) R-19, U-22
(b) H-8, J-10
(c) R-8, U-12
(d) K-11, M-13

Q58. A square park having a side 20 m has two roads each 2 m wide running in the middle of it and parallel to its length and breath. What will be cost of gravelling the path at the rate of Rs. 100/m²?

(a) Rs. 7,200
(b) Rs. 7,600
(c) Rs. 8,800
(d) Rs. 8,400

Q59. Use each of the following only once and form three groups. The three groups so formed are:

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

Q60. Identify an example of connective tissue in humans.
(a) Bone
(b) Muscles
(c) Cell
(d) Fibres

Q61. Find the missing term for the related pair of letter clusters.
CLOUD : COULD ? SMILE : _____
(a) MILSE
(b) SLIME
(c) SILME
(d) MILES

Q62. In which of the following examples will an athlete have a maximum accelerated motion?
(a) Running on a circular track
(b) Running on a hexagonal track
(c) Running on an octagonal track
(d) Running on a rectangular track

Q63. Consider the given statement to be true and decide which of the given conclusions logically follow(s) from the statement.
Statement:
All work and no play makes jack a dull boy.
Conclusions:
1: To work is important.
2: One has to compromise work for play.
(a) Only conclusion 1 follows.
(b) Only conclusion 2 follows.
(c) Both conclusions 1 and 2 follow.
(d) Neither conclusion 1 nor 2 follows

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Q64. 0.024545... written as a vulgar fraction in its simplest from is:

(a) 27/1111
(b) 9/370
(c) 9/37
(d) 27/1100

Q65. A train crossed a 120 m long platform in 12 seconds and 165 m long platform in 15 seconds. The speed of the train was:

(a) 66 km/h
(b) 54 km/h
(c) 49 km/h
(d) 72 km/h

Q66. Phytohormones are _____.

(a) regulators synthesized by plants influencing physiological processes
(b) substance controlling diseases
(c) substances used for photosynthesis
(d) chemicals used for peeling

Q67. One horse power is equals to

(a) 786 Watts
(b) 746 Watts
(c) 764 Watts
(d) 735 Watts

Q68. How many of the factors of 360 are perfect squares?

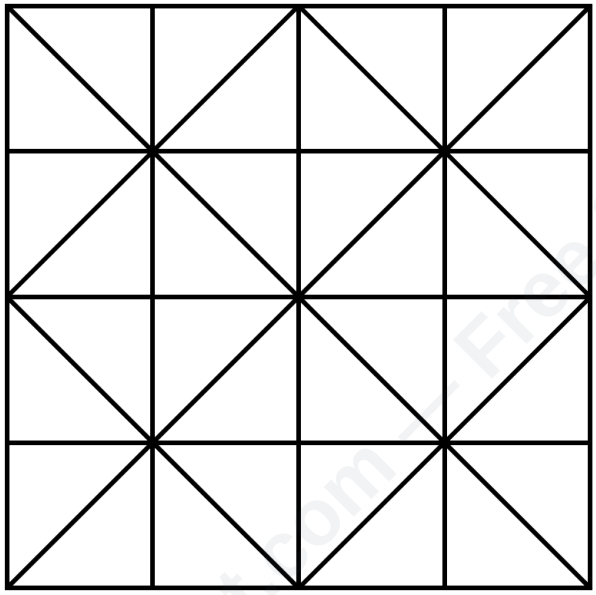
(a) 4
(b) 3
(c) 6
(d) 5

Q69. Which Indian nuclear scientist is currently the chairman of the Atomic Energy Commission of India?

(a) A.S. Kiran Kumar
(b) Sekhar Basu
(c) Madhavan Nair
(d) R. Murugesan

Q70. The minimum number of straight lines required to construct the given figure is _____.

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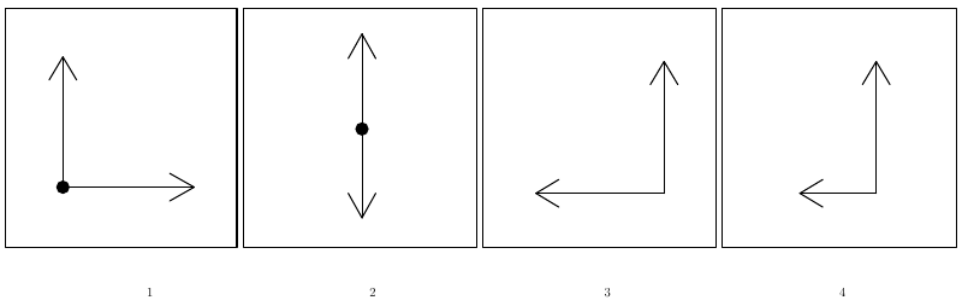
(a) 14
(b) 13
(c) 12
(d) 15

Q71. Consider the given statements to be true and decide which of the conclusions logically follow(s) from the statements.
Statements: No girl can jump. Some girls are swimmers
Conclusion I: Male swimmers can jump.
Conclusion II: Some swimmers can jump.
(a) Neither 1 nor 2 follows
(b) Only conclusion 1 follows
(c) Both 1 and 2 follows
(d) Only conclusion 2 follows

Q72. _____ is the number of shells for elements of the 3^(rd) period.
(a) 3
(b) 1
(c) 0
(d) 2

Q73. India-born Sundar Pichai is the Chief Executive Officer (CEO) of which of the following companies?
(a) Google
(b) Amazon
(c) Dell
(d) Microsoft

Q74. Select the odd figure out of the given series.



(a) 2

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

Q75. The hardest natural substance is _____.

(a) Copper
(b) Diamond
(c) Iron
(d) Graphite

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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