RRB ALP CBT I 29 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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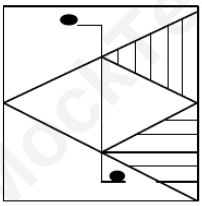
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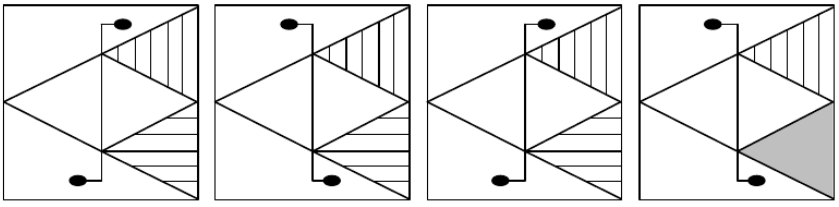
STAGE I (CBT I)

Q1. Choose the correct water image of the problem figure.

Problem Figures



Answer Figures

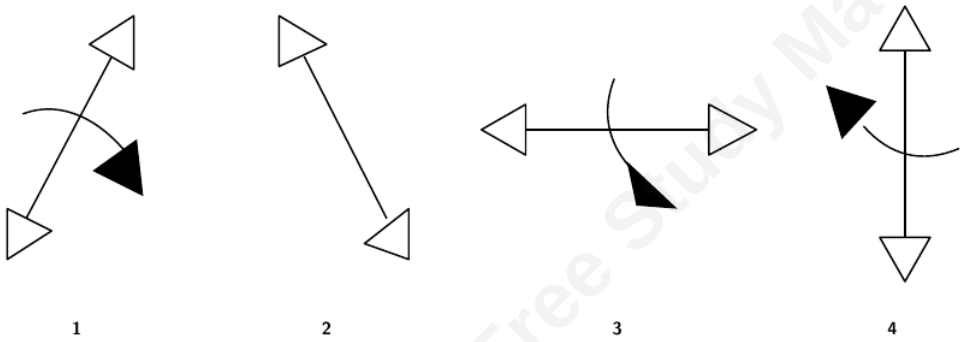


(a) D
(b) A
(c) C
(d) B

Q2. 5^(th) February 2018 is a Monday. 8^(th) April 2019 will be a:

(a) Wednesday
(b) Tuesday
(c) Monday
(d) Sunday

Q3. Select the figure which does NOT belong to the group.



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

Q4. An electric bulb was bought at Rs. 4200 Its value depreciates at the rate of 8% per annum Its value after one year will be:

(a) Rs. 3,684
(b) Rs. 3,800
(c) Rs. 3,864
(d) Rs. 3,746

Q5. Which Indian model won the Miss World 2017 contest held in China?

(a) Zoya
(b) Noyonika Chatterjee
(c) Manushi Chhillar
(d) Alia Bhatt

Q6. Who is the only cricketer to score three double centuries in One - Day Cricket?

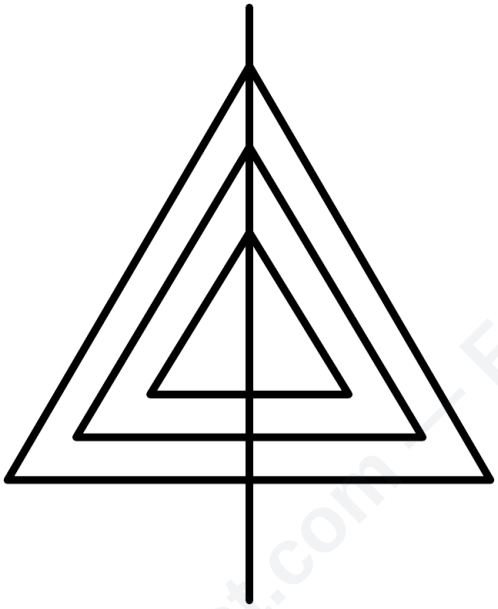
(a) Virendra Sehwag
(b) Ricky Ponting
(c) Chris Gayle
(d) Rohit Sharma

Q7. Which of the following is a chemical change?

(a) Butter turning rancid
(b) Making dry ice from CO_2
(c) Heating a platinum wire
(d) Magnetization of iron

Q8. Select the option that represents the number of triangles in the given figure.

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(a) 6
(b) 10
(c) 7
(d) 9

Q9. What is the highest percentage slab for GST In India?
(a) 20%
(b) 32%
(c) 25%
(d) 28%

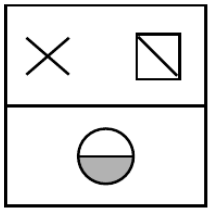
Q10. A positive integer, which when added to 1000, gives a sum which is greater than 10.06 when it is multiplied by 100. This positive integer is
(a) 1
(b) 7
(c) 3
(d) 5

Q11. Non-metals generally contain _____ electrons in their outermost shell.
(a) 1, 2 or 3
(b) 5, 6, 7 or 8
(c) 8, 9 or 10
(d) 10 to 8

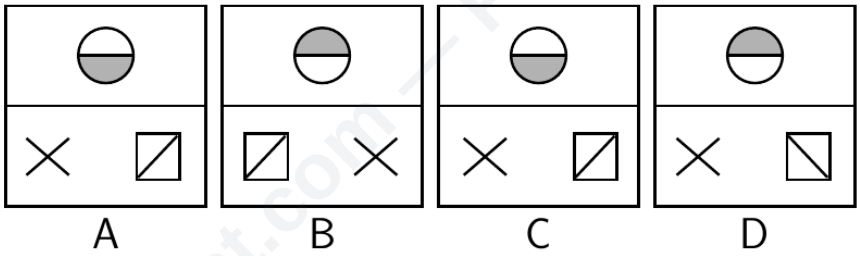
Q12. From the given four answer figures choose the correct water image of the problem figure.

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Problem Figures



Answer Figures



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

Q13. What is the radius of an atom used to measure?
(a) Atomic number
(b) Atomic mass
(c) Atomic size
(d) Atomicity

Q14. If a force of 20 N is applied on a body with a mass 10 kg, what will be the acceleration produced?
(a) 100 m/sec²
(b) 200 m/sec²
(c) 5 m/sec²
(d) 2 m/sec²

Q15. The formula of Power is _____.
(a) Momentum/Time
(b) Work/Time
(c) Speed/Time
(d) Displacement/Time

Q16. An object is placed at a distance of 20 cm from a convex lens of focal length 10 cm. The image is formed at a distance of:
(a) 15 cm
(b) 5 cm
(c) 20 cm
(d) 10 cm

Q17. Select the word pair that is analogous to the given word pair.
Sankranti : Andhra Pradesh
(a) Onam : Kerala
(b) Bhangra : Punjab
(c) Christmas : Christians
(d) Kathak : Uttar Pradesh

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Q18. The LCM of 14, 35 and 56 is:

(a) 280
(b) 140
(c) 210
(d) 560

Q19. Under which Indian emperor's reign was the Jama Masjid in Delhi built?

(a) Humayun
(b) Babur
(c) Aurangzeb
(d) Shah Jahan

Q20. If the valency of Aluminium is 3 and that of Oxygen is 2, then the chemical formula of Aluminium oxide is:

(a) (AIO)_(3 + 2)
(b) AIO2
(c) AI3O2
(d) AI2O3

Q21. Sree and Kavi are a couple. Siri and Samyu are sisters. Samyu is the sister of Kavi. How is Siri related to Sree?

(a) Uncle
(b) Brother
(c) Cousin
(d) Sister-in-law

Q22. If α & β are the zeros of the polynomial $5x^2 - 7x + 2$ then the sum of their reciprocals is:

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

Q23. In which of the following permanent tissue are the cells dead?

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

Q24. Testes are located outside the abdominal cavity in the:

(a) Urinary bladder
(b) Ovary
(c) Vagina
(d) Scrotum

Q25. The smallest number by which 72 must be multiplied to obtain a perfect square is:

(a) 4
(b) 6
(c) 8
(d) 2

Q26. A man travels 15 km towards the east, then turns right and travels 20 km. He then turns left and travels 30 km. Finally, he takes a right turn and covers 40 km. The shortest distance between the starting point and the destination is:

(a) 50 km
(b) 75 km
(c) 100 km
(d) 80 km

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Q27. If an anchored boat is rocked by waves whose crests are 80 m apart and whose velocity is 20 m/s, then the time required by the crests to reach the boat is _____.

(a) 0.5 s
(b) 5 s
(c) 0.2 s
(d) 4 s

Q28. • 70 + 28 ÷ (7 - 3) = ?

(a) -9
(b) -69
(c) -10.5
(d) -63

Q29. In a test Paran secured 63 marks that was also equivalent to obtaining 84% marks. How many marks was the test out of?

(a) 80
(b) 65
(c) 75
(d) 85

Q30. A and B can complete a task in 40 days, B and C can complete it in 30 days while C and A can complete the same task together in 24 days. How many days will each of A, B and C take to complete the task individually?

(a) 48, 96 and 32
(b) 32, 48 and 96
(c) 60, 120 and 40
(d) 40, 120 and 60

Q31. Which Indian American is the CEO of Adobe Systems?

(a) Francisco D'Souza
(b) Shantanu Narayen
(c) Sundar Pichai
(d) Sanjay Kumar Jha

Q32. Reproducing new plants by cells instead of vegetative parts or seeds is called:

(a) Tissue culture
(b) Regeneration
(c) Multiple fission
(d) Binary fission

Q33. Consider the given statement true and decide which of the given assumptions is (are) implicit.

Statement:

A teacher tells a student, "if you don't finish your homework, you will not be allowed into the class".

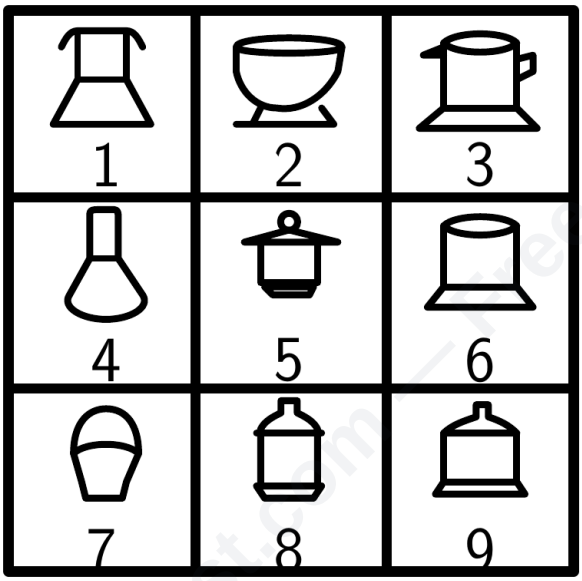
Assumptions:

1. Discipline is a way to create effective learning.
2. The teacher will be happy not to have a student who is not punctual in his work.

(a) Only assumption I is implicit.
(b) Neither assumption I nor II is implicit.
(c) Only assumption II is implicit.
(d) Both assumptions I and II are implicit.

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Q34.



If three groups could be formed using the given figures only once, these groups would be _____.

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

Q35. A rectangle having 10 cm and 6 cm as its dimensions was reconstructed to make a rhombus having the same perimeter as that of the rectangle and 60° as one of its angles. The area of the rhombus, in cm^2, was:

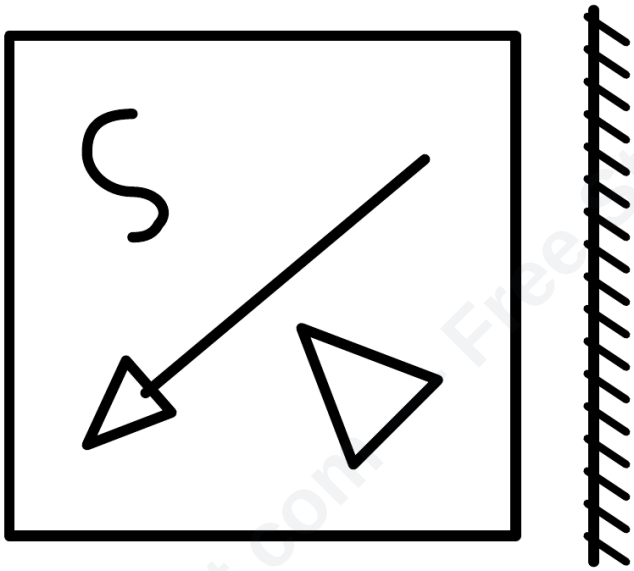
(a) $24\sqrt{3}$
(b) $8\sqrt{3}$
(c) $16\sqrt{3}$
(d) $32\sqrt{3}$

Q36. Who is first female president of National Association of software and Services Companies (NASSCOM)?

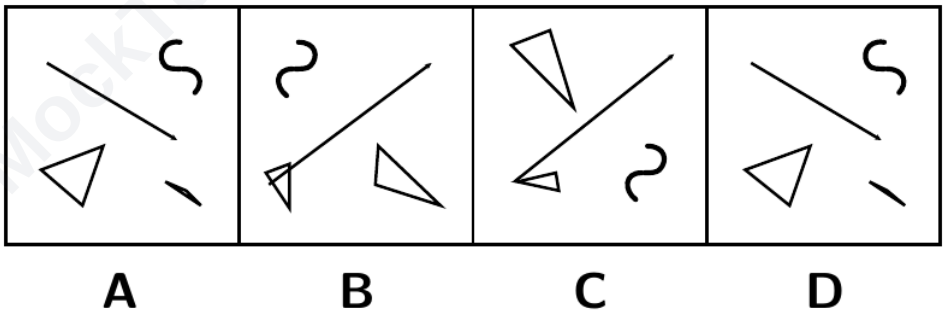
(a) Vnitha Narayana
(b) Debjani Ghosh
(c) Kiran Mazumdar Shaw
(d) Mallika Srinivasan

Q37. Select the Answer Figure that is the correct mirror image of the given Problem Figure.

Problem Figure:



Answer Figures:



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

Q38. What happens to the ammeter reading when the length of the wire is doubled?

(a) It increases two times
(b) It decreases to one half
(c) It decreases to three-fourth
(d) It remains the same

Q39. Which of the following has NO unit?

(a) Density
(b) Relative density
(c) Displacement
(d) Pressure

Q40. Which of the following signs and numbers should be interchanged such that for the following expression, LHS = RHS.

$6 \times 4 + 2 = 16$

(a) × with +, 2 with 6
(b) × with +, 4 with 2
(c) × with +, 16 with 6
(d) × with +, 4 with 6

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Q41. The sum of the lengths of the edges of a cube is equal to half the perimeter of a square. If the numerical value of the volume of the cube is equal to the numerical value of the area of the square, then the length of one side of the square is:

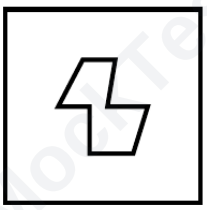
(a) 108 units
(b) 36 units
(c) 216 units
(d) 288 units

Q42. Who is the newly appointed Governor of Bihar as of March 2018?

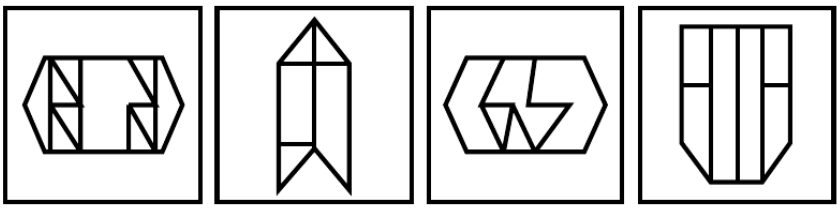
(a) Satya Pal Malik
(b) Kiran Bedi
(c) Devandra Kumar Joshi
(d) Ram vilas Paswan

Q43. The problem figure is embedded in one of the four answer figures. Which of the four figures contains the problem figure?

Problem Figures



Answer Figures



(a) (b) (c) (d)

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

Q44. Which of the following elements has the unique ability to form bonds with other atoms of the same element giving rise to large molecules?

(a) Aluminium
(b) Hydrogen
(c) Carbon
(d) Nitrogen

Q45. The energy possessed by a body due to its change in position or shape is called:

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

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Q46. Select the missing term in the given sequence.

E1, H2, K6, N24, _____

(a) Q72
(b) P120
(c) Q720
(d) Q120

Q47. Consider the argument and decide which of the given assumptions is/are implicit.

Argument:

Due to potholes in the city a large number of people are unable to reach the airport on time.

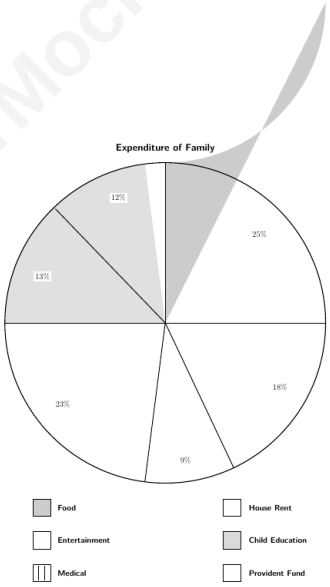
Assumptions:

1. Reaching the airport on time is not necessary.

2. There is no other route to the airport.

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

Q48. The chart represents the domestic expenditure of a family per month with total expenditure being Rs. 33650 then the annual expenditure for provident fund is:



(a) Rs. 4038
(b) Rs. 4083
(c) Rs. 48,465
(d) Rs. 48,456

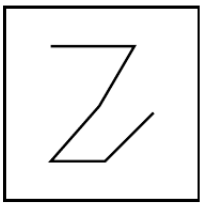
Q49. The ratio of boys and girls in a club is 3 : 2. Which of the following could be the actual number of members?

(a) 18
(b) 25
(c) 16
(d) 24

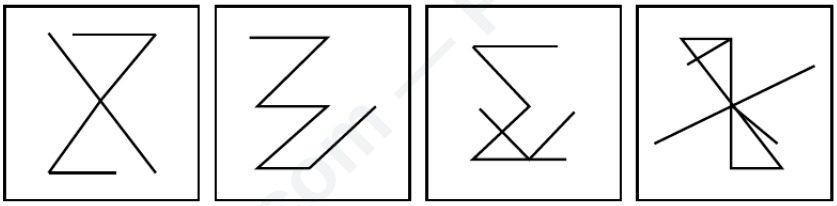
Q50. The following problem figure is embedded in one of the four answer figures. Choose the correct figure containing the problem figure.

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Problem Figures

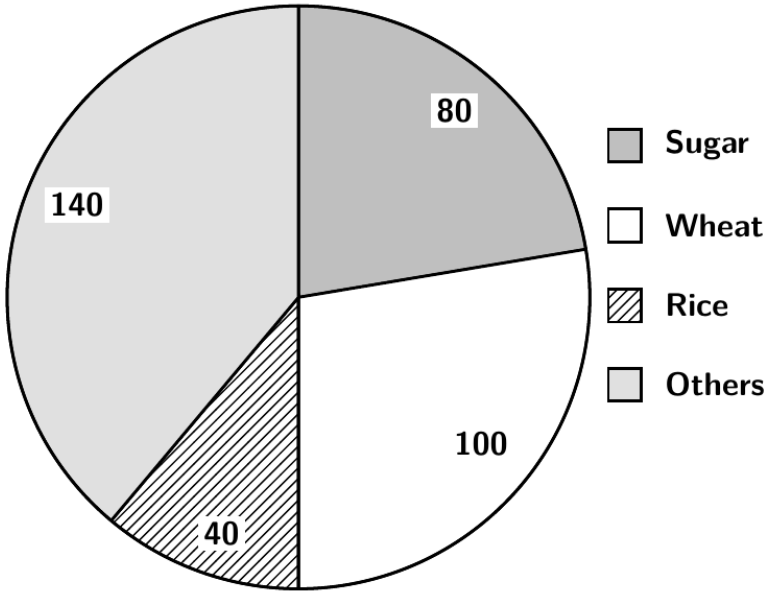


Answer Figures



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

Q51.



The given pie chart represents the annual yield of certain crops, in tons.
If the yield of sugar is 6000 tons, then the total production is _____ tons.
Sugar
Wheat
Rice
Others

(a) 30000
(b) 27000
(c) 24000
(d) 25000

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Q52. In a hydroelectric power station ultimately which energy is converted into electrical energy?

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

Q53. The party that won the least number of seats is _____.

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

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

Q54. The price of the sugar goes up by 30%. By what percent should Sita reduce her consumption so that the expenditure does not increase?

(a) 231/13%
(b) 221/13%
(c) 23%
(d) 22%

Q55. A 160 m long train crosses a 740 m long bridge in 40.5 seconds. What is the speed of the train?

(a) 80 km/h
(b) 85 km/h
(c) 75 km/h
(d) 70 km/h

Q56. Consider the given argument and decide which of the given assumptions is (are) implicit.

Argument:

A government servant sitting idle tells a visitor to come after 2 weeks to get this certificate attested, as he is very busy and have a lot of work.

Assumptions:

1. The government servant wants to help the visitor.

2. The government servant is expecting a favour from the visitor.

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

Q57. The coordinates of the point that divides the line segment joining the points (- 5, 5) and (7, -3) internally in the ratio 3 : 1 are given by

(a) (-2, 3)
(b) (4, -1)
(c) (5/2,0)
(d) (1, 1)

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Q58. What day would it be on 1^(st) March 2020?

(a) Monday
(b) Saturday
(c) Friday
(d) Sunday

Q59. In the following letter series, one letter is missing as shown by the question mark (?). Select the missing letter from the given options.

D, G, K, ?,.V

(a) P
(b) R
(c) L
(d) M

Q60. Two-thirds of my current age is the same as three-fourths of that of one of my cousins'. My age three years ago will be his age four years hence. My current age is _____ years.

(a) 72
(b) 63
(c) 54
(d) 81

Q61. The amount of glucose required to prepare 25 g of a solution 5% by mass is:

(a) 125 g
(b) 1.25 g
(c) 50 g
(d) 25 g

Q62. Newlands arranged _____ the then known elements in his table of octaves.

(a) 63
(b) 56
(c) 58
(d) 17

Q63. Consider the given question and decide which of the following statements is sufficient to answer the question.

How long will X take to build the wall?

Statements:

1. X and Y together can build the wall in 8 days.
2. X takes 5 days more than Y to build the wall.

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

Q64. In which continent is the Andes Mountain range situated?

(a) Europe
(b) Australia
(c) South America
(d) Africa

Q65. The base of a triangle is one-third 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) 3 : 2
(b) 4 : 1
(c) 3 : 1

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(d) 6 : 1

Q66. Which of the below fractions when added to 4/3 gives 3?

(a) -1/2
(b) 2/3
(c) 5/3
(d) 11/2

Q67. As of February 2018, who owns the Mumbai - based IPL team ‘Mumbai Indians’?

(a) Reliance Industries
(b) Times of India
(c) Amitabh Bachan
(d) Shah Rukh Khan

Q68. Consider the given statements to be true and decide which of the conclusions logically follow(s) from the information given in the statements.

Statements:

Though there is advanced medical facilities available nowadays, still child mortality in India is high.

Conclusions:

1. Medical scientists should be asked to give up their job and work as doctors to save lives.
2. The Government has to make efforts to decrease child mortality.

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

Q69. Using the sequence ABC$+#DEF&=?GHI!2*@, fill in the blank given in the following expression.

A $ D _____ G ! @

(a) &
(b) ?
(c) =
(d) F

Q70. [63 - (- 3) {- 2 - 8 - 3}] ÷ 3 {6 + (- 2) (- 1)} = ?

(a) 0
(b) 3
(c) 1
(d) 2

Q71. Which of the following solutions do not conduct electricity?

(a) Sodium hydroxide solution
(b) Glucose solution
(c) Acetic acid Solution
(d) Hydrochloric acid solution

Q72. Who is the author of the book ‘Lone Fox Dancing: My Autobiography’?

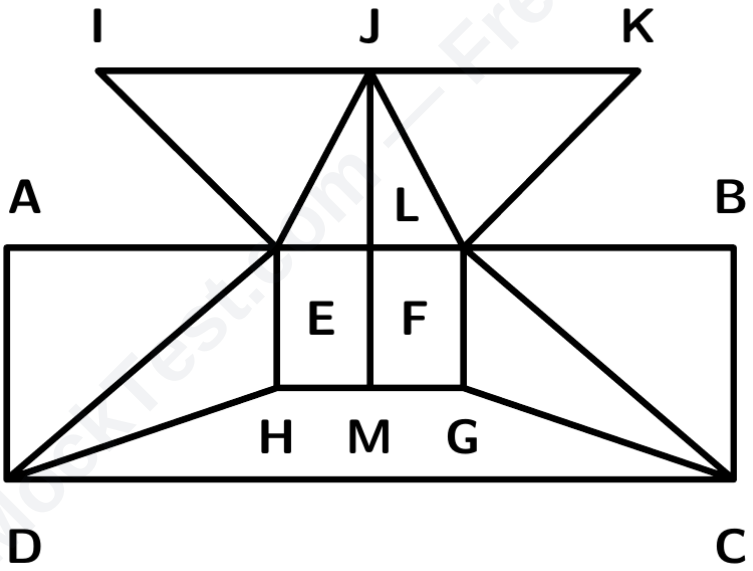
(a) Ruskin Bond
(b) Arundhati Roy
(c) Shobha De
(d) V. S. Naipaul

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Q73. If in a certain code, SKYJACKING is written as AJYKSGNIKC, then how will CHEAPJACKS be written as in the same code?

(a) PAEHCSKCAJ
(b) PAAEHCSKCAJ
(c) PAEHCCSKCAJ
(d) PAEHCSKAJ

Q74. What is the minimum number of straight lines required to construct the given figure?



(a) 17
(b) 14
(c) 18
(d) 16

Q75. Complete digestion of carbohydrates, proteins and fats takes place in the:

(a) Oesophagus
(b) Stomach
(c) Small intestine
(d) Large intestine

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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