

CMAT 2018 Slot 1 Question Paper - January 20 Forenoon Session

Logical Reasoning

Q26. The river flows from west to east and on the way then turns left. After going some distance it encounters a hill. It goes around the hill counter-clockwise in a quarter circle, and then turns right. In which direction is the river finally following?

- (1) North
 - (2) South
 - (3) East
 - (4) West
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**Q27. Based on the statement given below which of the following option is correct:
Whenever Preeti's father is in town, she abstains from school and goes to her aunt's house.**

- (1) If Preeti has not abstained from school or she has not gone to her aunt's house, it means that her father is not in town.
 - (2) If Preeti has not abstained from school but her father is in town, then she will definitely go to her aunt's house.
 - (3) If Preeti has abstained from school but she has not gone to her aunt's house, it means that her father is not in town.
 - (4) Both (1) and (3)
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**Q28. Four friends, namely, Liyaqat, Lillian, Lima and Lalit are sitting on a horizontally placed wooden bench, all looking towards the same direction. If:
There is at least one person sitting between Lillian and Lima;
Liyaqat is towards the right of Lima but not towards the right of Lalit;**

Lalit is seated immediately next to Lillian;

Lima is seated at one of the extreme corners of the bench.

Which of the following is definitely true?

- (1) Lillian and Liyaqat are seated immediately next to one another.
 - (2) Liyaqat is seated at one of the extreme corners of the bench.
 - (3) There is at least one person seated between Lalit and Liyaqat.
 - (4) There is at least one person seated between Lalit and Lima.
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Q29. Ali, Benu, Cutty and Dolly play four different games among Basketball, Cricket, Kabaddi and Hockey. Ali does not play Basketball or Cricket. Benu does not play Kabaddi or Hockey. Cutty plays Hockey and Dolly plays either Basketball or Hockey. Who plays cricket?

- (1) Ali
 - (2) Benu
 - (3) Cutty
 - (4) Dolly
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Q30. A National Highway road network has parallel and perpendicular roads running north south or east west only. Junctions/Intersections on this road network are marked as R1, R2, R3, R4, R8 and R24. All roads are at exactly half a kilometer distance from each other. The following is known about junctions R1, R2, R3, R4, R8 and R24. “R1 is east of R2 and west of R3; R8 is southwest of R3 and southwest of R2. R2 is southeast of R24.” Which junctions are the farthest south and the farthest east?

- (1) R1, R2
 - (2) R8, R3
 - (3) R3, R8
 - (4) R2, R8
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Q31. 125 small but identical cubes have been put together to form a large cube. How many such small cubes will be required to cover this large cube completely?

- (1) 208
- (2) 212
- (3) 254
- (4) 218

Q32. Five boys Ganesh, Hitesh, Ishan, Jaiknee and Kailash always compete with one another. Ishan gets more marks than Kailash and Jaiknee gets less marks than Ganesh. Hitesh gets more marks than Jaiknee and Kailash. Whose marks among the following could be the lowest?

- (1) Ganesh
- (2) Hitesh
- (3) Ishan
- (4) Jaiknee

Q33. Below given question has a main statement followed by four statements labeled A, B, C and D. Choose the ordered pair of statements, where the first statement implies the second and the two statements is logically consistent with the main statement.

All cubes are round in shape.

- (A) Figure A is not round in shape.
- (B) Figure A is a cube.
- (C) Figure A is not a cube.
- (D) Figure A is round in shape.

- (1) CA
- (2) DB
- (3) AC
- (4) AB

Q34. If $a + b$ means a is sister of b , $a - b$ means a is brother of b , $a \times b$ means a is daughter of b , $a \div b$ means a is mother of b , which of the following relationship shows that p and r are wife and husband?

- (1) $p \div q \times r$
- (2) $p - q \times r$
- (3) $p + q \times r$
- (4) $p + q - r$

Q35. In a code language FRIGHTENS is written as 106; SIMILARLY is written as 118, how would DEMONITISATION be written in the same language?

- (1) 159
- (2) 169
- (3) 167
- (4) 166

Q36. Four packets P, Q, R and S, three wallets A, B and C are kept on a table one after the other in a row from left to right. Wallet C has as many items to its left as to its right. No packet is kept at any extreme end of the row. Packet P is kept to the immediate left of packet R. Packet P is to the immediate right of wallet A. What is kept third from left end of the row on the table?

- (1) C
- (2) S
- (3) R
- (4) A

Q37. A greengrocer sells five types of fruits- Apple, Black berry, Banana, Cherry and Peach. Black berry is more fresh and heavier than Peach. Apple is heavier than Banana and more fresh than Cherry. Cherry is heavier than Black berry, but less fresh than Peach. Banana is heavier than Black berry, but less fresh than it. Which of the following is the lightest of all the fruits?

- (1) Peach
- (2) Black berry
- (3) Apple
- (4) Banana

Q38. 2 3 7 4 3 2 1 5 7 3 2 7 1 0 9 8 7 5 4 7 2 3

Find the number of 7 in the given series that are followed by an even number but are not preceded by a prime number?

- (1) 1
- (2) 2
- (3) 3
- (4) 4

Q39. Each of the three kids gets at least one color box out of 6 color boxes, at least one tiffin box out of 6 tiffin box and at least one chocolate box out of 6 chocolate boxes so that the total number of the items that each of them gets is the same. No one gets the same number of tiffin boxes, color boxes and chocolate boxes. Then which of the following can be TRUE?

- (1) Each Kid gets 2 tiffin boxes, 2 color boxes and 2 chocolate boxes.
- (2) Each Kid gets 2 tiffin boxes and 2 color boxes.
- (3) Each Kid gets 1 color box, 2 chocolate boxes and 3 tiffin boxes.
- (4) The number of tiffin boxes, color boxes and chocolate boxes that each Kid gets is 1, 2 and 3 not necessarily in that order.

Q40. A, B, C, D, E, F and G are seven members in a family, out of which there are three females and four males. There are two architects, two travel agents, one teacher, one engineer and one doctor. No lady is either a teacher or an engineer. C is a travel agent and is married to A, who is a teacher. F, the engineer, is married to D, who is neither a travel agent nor a doctor. No two ladies have the same profession. B is the sister of G who is an architect. What is E's profession?

- (1) Architect
- (2) Travel agent
- (3) Engineer
- (4) Doctor

Q41. There are six members - Pills, Qills, Rills, Sills, Tills and Uills in a family. There are two married couples. Qills is Bengali and is the father of Tills. Uills is the grandfather of Rills. Uills is from Tamil Nadu. Sills is the grandmother of Tills and Sills is from Punjab. There is one Bengali, one Tamilian, one Punjabi, one Telegu and two Haryanvis in the family. The Telegu person is a female and married. Nobody who is a grandchild is married. Which of the following two are married couples?

- (1) Pills Qills, Uills Sills
- (2) Pills Sills, Qills Uills
- (3) Pills Rills, Qills Sills
- (4) Pills Uills, Qills Rills

Q42. Complete the below given series: 0, 6, 6, 20, 20, ---

- (1) 42
- (2) 40
- (3) 26
- (4) 32

Q43. Looking at Samir, Rahul said, "Your only brother is the father of my daughter's father". How is Samir related to Rahul?

- (1) Father
- (2) Grandfather
- (3) Brother-in-laws
- (4) Uncle

Q44. Kapila, Meenal, Rishi, Pradeep and Lalita have five flats in different buildings of five different colours- Blue, White, Red, Orange and Green. The Green building is the shortest of all the buildings and Pradeep's flat is in it. The building in which Lalita's flat is located, is neither Blue nor White in colour and is taller than the building in which Meenal's and Rishi's flats are located. One person's name starts with the same letter as the first letter of the building's colour in which he resides and it is the second tallest of all. Which of the following can be TRUE about the resident of the building, its colour and its height?

- (1) Lalita - Blue - Shortest
- (2) Meenal - Red - Tallest
- (3) Lalita - Orange - Tallest
- (4) Pradeep - Green - Tallest

Q45. Five theatres PVR, DT, Chanakya, Regal and Maratha Mandir screen two out of ten films based on Romance, Thriller, Horror, Adventure, Children, Drama, Documentary, History, Religion and Cartoon. Each theatre exhibits only two films and allots two different slots for them, wherein Slot I is before slot II. Chanakya screens a Horror film in the first slot, while Maratha Mandir exhibits a Historical film in the second slot. DT exhibits a thriller film in the second slot and Regal exhibits a documentary film. Drama must be exhibited only in the second slot. The children's film

and the Cartoon film are exhibited in the same theatre while the religious film is not in the first slot. If Chanakya screens a Religious film in its second slot, then which of the films can be screened by theatre Regal?

- (1) Cartoon and History
- (2) Documentary and Drama
- (3) Documentary and History
- (4) Horror and Documentary

Q46. Three girls K, L, M and three boys N, Z and P are sitting around a table facing inwards playing cards. K and L do not sit next to each other. Z and P are opposite each other. M is sitting to the immediate right of P. If K is not between Z and M, then N is not next to P. Which of the following is not an arrangement (in clockwise direction) satisfying the conditions given above?

- (1) N K Z L M P
- (2) P K N Z L M
- (3) L N Z K M P
- (4) K P M L N Z

Q47. Ten candidates appear for an interview and six of them are selected. There are two M.Techs, two MBAs, two MBBS and four LLB among the candidates. At least one MBA candidate is selected, of the six selected candidates, exactly one must be an M.Tech candidate. If two MBBS candidates are selected, then which of the following statements can be TRUE?

- (1) One MBA and one LLB candidate are selected.
- (2) Three LLB candidate are selected.
- (3) Only one MBA and two LLB candidates are selected.
- (4) One M.Tech and three LLB Candidates are selected.

Q48. All students are young; some young are short; all short are stout; most stout are clever; all clever are courageous, then which of the following is most definitely false?

- (1) Some students are stout
- (2) Some young are courageous
- (3) Most stout are courageous
- (4) All stout are courageous

Q49. Arvind, Saurabh, Romy and Denu, have different qualifications. Their qualifications are MBA, B.Tech, M.Tech and LLB - not necessarily in that order. Arvind and Romy are not MBAs, whereas Saurabh and Romy are not LLB; Romy and Denu are not B.Tech, whereas Denu and Arvind are not M.Tech. If Saurabh is a B.Tech then which of the following should be an MBA?

- (1) Romy
- (2) Arvind
- (3) Denu
- (4) Either Romy or Denu

Q50. Five delegates P, Q, R, S and T are forwarding their files to one another. P sends his file to Q, S and T, T sends his files to R while P and R exchange their files with each other. Q sends his file to S who sends his files to T. If P has to forward his files to R, then in how many ways P can forward his files to R?

- (1) Two
 - (2) Three
 - (3) Four
 - (4) One
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