

1. Varun is the son of Tarun. Sunita is the daughter of Anita and Umang's son while Ramesh is Sunita's mother-in-law's son. If Umang has only one son Tarun, how is Ramesh related to Varun?

- (a) Brother                      (b) Father                      (c) Brother-in-law                      (d) Cannot be determined

2. After looking at a woman's photograph, Anjali said, "This woman's mother is my mother's daughter". How is Anjali related to the woman in the photograph?

- (a) Aunt                      (b) Mother                      (c) Niece                      (d) Cannot be determined

**Directions for questions 3-7:**

Eight friends P, R, T, V, W, J, F and K are sitting around a circle facing the centre not necessarily in the same order.

(1) T is third to the right of F and second to the left of W

(2) P and R are not neighbours of W

(3) R is third to the right of K

(4) J is between W and K.

3. Which of the following is the correct position of P with respect to K's position?

- (a) Third to the left                      (b) Third to the right  
(c) Fifth to the right                      (d) Second to the right

4. Which of the following pairs has the first person to the immediate left of the second person?

- (a) W and V                      (b) T and P                      (c) F and R                      (d) T and V

5. Who is to the immediate right of V?

- (a) F                      (b) J                      (c) K                      (d) W

6. Which of the following is the correct position of W?

- (a) Three places to the right of R                      (b) Three places to the left of R  
(c) Immediate left of V                      (d) Two places to the right of F

7. Which of the following pairs is sitting diametrically opposite each other?

- (a) R and J                      (b) F and T                      (c) K and V                      (d) R and V

8. Four boys – Vishal, Sarvesh, Debraj and Yogendra – and four girls – Mansi, Leena, Payal and Shivani are sitting along two opposite sides of a rectangular table such that all the boys sit on the same side of the table and all the girls sit on the opposite side of the table and each boy faces one girl. Sarvesh and Vishal cannot be seated together. Payal is to be seated facing Vishal and Leena must sit facing Yogendra. If Shivani is seated facing Debraj and Mansi is not at an end of the row, then which of the following statements must be true?

- a) Mansi is the only one seated between Leena and Shivani.  
b) Mansi and Payal are seated together.  
c) Payal is not at an end of the row.  
d) None of the above

**Directions for questions 9 to 13:**

At a leading B-school, the students are allowed to choose one specialization out of Marketing, Finance, Systems and HR. Depending on the specialization he chooses, a student has to study one or more of the following four basic subjects: Statistics, Principles of Management, Organizational Behaviour and Basics of Accounting.

- (1) A person specializing in Systems has to study at least 'Statistics' and possibly other subjects, but never study Principles of Management.
- (2) A person specializing Marketing has to study Principles of Management and Basics of Accounting, but neither Statistics nor Organizational Behaviour.
- (3) A person specializing in Finance has to study Principles of Management and Basics of Accounting, and either Organizational Behaviour or Statistics, but never both.
- (4) A person specializing in HR has to study at least Statistics and Organizational Behaviour and possibly other subjects.

**9.** If a student studies Basics of Accounting and Organizational Behaviour, then it must be true that

- (a) He is specializing in Systems
- (b) He is not specializing in Finance
- (c) He is also studying Principles of Management
- (d) He is not specializing in Marketing
- (e) He is also studying Statistics

**10.** If a student is not studying Principles of Management, then it must be true that

- (a) He is also studying Basics of Accounting
- (b) He is also studying Statistics
- (c) He is also studying Organizational Behaviour
- (d) He is specializing in HR
- (e) He is specializing in Systems

**11.** If a student is not studying Organizational Behaviour, then it must be true that

- (a) He is specializing in Marketing
- (b) He is not specializing in Finance
- (c) He is specializing in Systems
- (d) He is not specializing in Systems
- (e) He is not specializing in HR

**12.** If a student is studying neither Basics of Accounting nor Organizational Behaviour, then what can be said about his specialization or the subject that he studies?

- (a) Statistics
- (b) Systems
- (c) Principles of Management
- (d) Both Statistics and Systems
- (e) Both Principles of Management and Systems

**13.** If the only subjects that a student studies are Basics of Accounting and Statistics, then what can be said about his specialization?

- (a) Systems            (b) Marketing            (c) Finance            (d) HR            (e) Either Finance or HR

**14.** Umang, Baldev and Amar are my very good friends. The following are the details regarding the types of suits they wear, the type of food they eat and the vehicles they use. They wear different types of suits, eat different types of food and use different brands of vehicles. Umang does not eat Chinese food and he does not travel in a Skoda. Amar eats south Indian food. The person who travels in BMW wears a T-shirt. The person who travels in Maruti eats North Indian food and wears a kurta. Amar does not wear safari suits.

Which of the following statements is true?

- a) The person who travels in BMW eats Chinese food.  
b) Amar wears a kurta and travels in a Skoda.  
c) Baldev wears a safari suit and eats Chinese food.  
d) Umang travels in BMW and eats North Indian food.

**Direction for Questions 15 to 17:**

Five people reside in a building. Each person can speak two different languages. V speaks Marathi and Gujarati, W speaks Marathi and Tamil, X speaks Gujarati and Tamil, Y speaks Marathi and Bengali, and Z speaks Gujarati and Bengali. The following questions are based on this information.

**15.** Which of the following can act as an interpreter, if X and Y want to talk?

- (a) Only V            (b) Only W            (c) Only Z            (d) Any of three

**16.** Which of the following cannot talk to each other without an interpreter?

- (a) W & Z            (b) V & W            (c) V & X            (d) W & Y

**17.** If sixth person who comes to stay in the building is to be understood by the maximum number of people, which language should he speak?

- (a) Tamil and Bengali            (b) Gujarati and Tamil  
(c) Marathi and Gujarati            (d) Marathi and Tamil

**Direction for Questions 18 to 20:**

Each of the four students Ramesh, Rakesh, Rupesh and Ronald scored one of 75, 80, 85 and 90 marks in four of the following subjects viz. English, History, Maths and Science.

- (1) No two students scored the same marks in any two subjects.  
(2) Ronald scored more marks than Rupesh in Maths.  
(3) Neither Rakesh nor Rupesh got 75 marks in English or Maths.  
(4) Neither Ramesh nor Rakesh got 90 marks in Maths.  
(5) Rupesh got 85 marks in Science

**18.** Who scored the highest in History?

- (a) Ramesh            (b) Rakesh            (c) Rupesh            (d) Ronald

**19.** What is Rupesh's Score in Maths?

- (a) 75                      (b) 80                      (c) 85                      (d) 90

**20.** How Many students scored more than Ramesh in English?

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

**21.** If SAVOURY is coded as OVUARSY then how will RADIATE be coded?

- (a) AIDARET              (b) IDARATE              (c) ARIADTE              (d) IDAATRE

**22.** If CIRCLE is coded as RICELC then how will SQUARE be coded?

- (a) UQSERA              (b) QUSERA              (c) UQSAER              (d) None of these

**23.** In a certain code, the word INSULTED is coded as RMHFOGVW, then how will the word MAGNETIC be coded in the same code?

**24.** In a certain code, the word LEXIGRAPHY is coded as MIYOHSEQIZ, then how will the word BRUTALIZED be coded in the same code?

**25.** In a certain code, the word EDUCATION is coded as UHPMADETD, then how will the word GATHERING be coded in the same code?

**26.** In a certain code, the word POLYMERIC is coded as FTLGMQQOC, then how will the word VOLUNTARY be coded in the same code?

**27.** In a certain code, the word FAVOURITE is coded as BPVJFEUQS, then how will the word BRIEFCASE be coded in the same code?

**28.** In a certain code MONKEY is written as XDJMNL. How is TIGER written in that code?

- (a) SDFHS              (b) SHFDQ              (c) QDFHS              (d) UJHFS

**29.** In a certain code SCRAMBLE is written as. How is COMPUTER written in that code?

- (a) DPQTQQCQ              (b) QQCQDQPT              (c) DQPTQQCQ              (d) QQCQDPQT

**30.** In a certain code, the word BEAUTIFY is coded as FTABEUIY, then what word will be coded as MARIGOLD?

**Directions for questions 31–33:** Read the information given below carefully and then answer the questions that follow. In a certain code language,

I. 'she likes apples' is written as 'pic sip dip'.

II. 'parrot likes apples lot' is written as 'dip pic tif nit'.

III. 'she likes parrot' is written as 'tif sip dip'.

- 31.** How is 'parrot' written in the code language?  
 (a) pic (b) dip (c) tif (d) Cannot be determined
- 32.** Which of the following statements is not necessary in order to answer the above question?  
 (a) I (b) II (c) III (d) All are required
- 33.** How is 'she likes lot' written in the code language?  
 (a) tif nit pic (b) sip tif dip (c) sip nit tif (d) None of these
- 34.** If BAT is coded as 100, CAT is coded as 200, then the code for ARE is—  
 (a) 300 (b) 150 (c) 50 (d) None of these
- 35.** 8, 9, 20, 63, 256, ?  
 (a) 1030 (b) 1035 (c) 1280 (d) 1285
- 36.** 4, 7, 10, 10, 16, 13, ?  
 (a) 19 (b) 23 (c) 21 (d) 22
- 37.** 7440, 620, 615, 55, 50, ?  
 (a) 45 (b) 10 (c) 5 (d) 15
- 38.** What number would come next in the series given below?  
 1, 4, 27, 4, 25, 216, ?
- 39.** Find the wrong number in the series given below?  
 150 152 155 160 167 176 191
- 40.** What should come next in the following number series?  
 6 8 8 1 2 6 8 6 1 2 3 6 8 8 1 2 3 4 6 8 6 1 2 3 4 5 6 8 ?  
 (a) 6 (b) 1 (c) 4 (d) 8

**Directions for questions 41 to 44:**

In a round robin league matches of 8 teams, each team plays to every other team. A win is awarded with 1 point and there is no penalty for losing a match and also assume there is no match which is draw or tie. Out of 8 teams top 4 teams will proceed to semifinal round. If two teams have equal points then some complex method is used to determine top 4 teams.

- 41.** What can be the maximum number of matches that a team can win and still does not reach the semifinal stage?  
 (a) 2 (b) 3 (c) 4 (d) 5
- 42.** What can be the minimum number of matches that a team can win and still manages to reach the semifinal stage?  
 (a) 2 (b) 3 (c) 4 (d) 5

**43.** What is the maximum number of teams that can have with same number of wins?

- (a) 4                      (b) 5                      (c) 6                      (d) 7

**44.** Which of the following number of wins could be possible for the 8 teams?

- (a) 7, 7, 5, 4, 2, 1, 1, 1, 0                      (b) 7, 6, 5, 4, 2, 2, 2, 0, 0  
(c) 7, 6, 6, 4, 2, 1, 1, 1, 0                      (d) 7, 6, 5, 4, 2, 2, 1, 1, 0

**Directions for questions 45 to 50:**

Australian Grand slam open is a 128 player knock-out tournament where there are various rounds held and winner of various rounds advances to the next round. The first round to be held is called as Round 1, next round as Round 2 and so on. The last three rounds are called as Quarter-Finals, Semi-Finals and Finals.

In Round 1, the player seeded 1<sup>st</sup> plays with player seeded 128<sup>th</sup> and this is called as Match 1 of Round 1. The 2<sup>nd</sup> seeded player will play with 127<sup>th</sup> seeded player and this is called as Match 2 of Round 1 and so on.

In Round 2, the player of winner of Match 1 of Round 1 will play with player of winner of Match 64 of Round 64 and so on.

The same pattern is followed for the later rounds as well.

**Note:** Upset is to be said when lower seeded player defeats higher seeded player.

**45.** How many rounds will be held?

- (a) 4                      (b) 5                      (c) 6                      (d) 7

**46.** How many matches will be played in all?

- (a) 128                      (b) 127                      (c) 65                      (d) 64

**47.** If there are only 2 upsets, then which is the lowest seeded player who can win the Grand slam?

- (a) Seed 64                      (b) Seed 32                      (c) Seed 8                      (d) Seed 4

**48.** How many upset matches does player seeded 64 has to play if he is to win the Grand slam?

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

**49.** If top 8 players reach the Quarter-Finals stage, then which among the following cannot play the Finals?

- (a) 1 and 7                      (b) 1 and 3                      (c) 2 and 5                      (d) 2 and 6

**50.** There were no upsets in the first, second and the last rounds. What could be the seeding of the lowest seeded player who could have won the tournament by causing at most 2 upsets?

- (a) Seed 17                      (b) Seed 24                      (c) Seed 28                      (d) Seed 53

**Directions for questions 51 to 54:**

In a game between two people A and B, a heap of pebbles is kept on the floor. In every step a person can pick 1, or 3 pebbles. The one who picks the last pebble loses.

**51.** If B is to begin the game, and A to win, what is the minimum number of pebbles greater than 5 that must have been lying on the floor.

- (a) 7                      (b) 9                      (c) 13                      (d) 15

**52.** If A were to begin the game and win it, what is the no of pebbles on the floor that is impossible for the game to have begun with assuming that both players are playing intelligently?

- (a) 13                      (b) 14                      (c) 15                      (d) 16

**53.** If the number of pebbles is 17 in how many steps does the game end?

- (a) 6                      (b) 7                      (c) 8                      (d) 9

**54.** If loser has to pay the winner of the match an amount equal to the difference in the number of pebbles taken by him and that by the winner, what is amount that loser will pay to winner if number of pebbles is 50

- (a) 0                      (b) 1                      (c) 27                      (d) 13

**55.** First 100 natural numbers are written on blackboard. Ramesh and Suresh started playing a game in which each one alternatively has to strike out numbers from blackboard.

Minimum two numbers and maximum 5 numbers can be strike out in one chance. The one who strike out the last number will lose the match. If Suresh start the game then how many numbers he should strike out such that he wins the game?

- (a) 3 or 4  
(b) 2 or 5  
(c) Suresh will definitely win independent of how many numbers he strike out.  
(d) Suresh cannot ensure a win.

**Directions for questions 56 to 58:**

Sushila had some flowers and she wish to visit five temples but on her way to temple she finds a pond before every temple and dips the flowers in the pond and then she keep some flowers at the temple. When she dips flowers in the pond surprisingly number of flowers gets multiplied by 5. She keeps some flowers in the temple and moves to second temple. Again she dips the remaining flowers in the pond and again it gets multiplied by 5 and then she keeps some flowers at the temple and the process repeats till she visit all 5 temples and after keeping all the remaining flowers at temple 5 she didn't have any flowers and at the end it is noticed that number of flowers kept at all the temples are equal.

**56.** What can be the minimum number of flowers that Sushila may have started with?

- (a) 780                      (b) 781                      (c) 775                      (d) 776

**57.** What can be the minimum number of flowers that Sushila may have kept at each temple?

- (a) 625                      (b) 3125                      (c) 775                      (d) cannot be determined

**58.** What will be the number of flowers that Sushila may have after dipping them in the pond before third temple?

- (a) 625                      (b) 3125                      (c) 775                      (d) cannot be determined

**Directions for questions 59 and 60:** These questions are based on the information given below.

Inhabitants of Absolute Island always answer any question only with the answer “Yes” or “No”. Akshay, Bimal, Chandni and Deepti are the owners of a resort, palm grove, supermarket, and water sports centre, not necessarily in that order. Deepti is not the owner of the supermarket. Everyone owns exactly one establishment: A resort, a palm grove, a supermarket and a water sports center.

Everyone was asked each of the following questions:

- (a) Are you the owner of the resort?  
(b) Are you the owner of the super market or palm grove?  
(c) Are you the owner of the super market or the water sports centre?

They gave the following answers, at least two of which were true per person.

Akshay : Yes, Yes, No  
Bimal : Yes, No, Yes  
Chandni : No, Yes, Yes  
Deepti : No, No, Yes

**59.** Nature of Bimal’s answers were

- (a) True, True, True  
(b) True, True, False  
(c) True, False, True  
(d) False, True, True

**60.** Nature of Chandani’s answers were

- (a) True, True, True  
(b) True, True, False  
(c) True, False, True  
(d) False, True, True