

## CLASS WORK

**Directions for Q1 to Q5:** Five students, P, Q, R, S and T stand in a line in some order and receive cookies and biscuits to eat. No student gets the same number of cookies or biscuits. The person first in the queue gets the least number of cookies. Number of cookies or biscuits received by each student is a natural number from 1 to 9 with each number appearing at least once.

The total number of cookies is two more than the total number of biscuits distributed. R who is in the middle of the line receives more goodies (cookies and biscuits put together) than everyone else. T receives 8 more cookies than biscuits. The person who is last in the queue receives 10 items in all, while P receives only half as many totally. Q is after P but before S in the queue. Number of cookies Q receives is equal to the number of biscuits P receives. Q receives one more goody than S and one less than R. Person second in the queue receives an odd number of biscuits and an odd number of cookies.

1. Who is 4<sup>th</sup> in the queue?  
(a) P            (b) Q            (c) R            (d) S
2. How many biscuits does Q get?  
(a) 6            (b) 7            (c) 8            (d) 9
3. If we know that S receives more cookies than biscuits, then how many cookies does R receive?  
(a) 4            (b) 5            (c) 6            (d) 7
4. If R receives fewer cookies than S, how many cookies does S receive?  
(a) 6            (b) 7            (c) 8            (d) 9
5. How many cookies are distributed in all?  
(a) 30            (b) 35            (c) 25            (d) 20

**Directions for Q6 to Q10:** Eleven students, A, B, C, D, E, F, G, H, I, J and K are sitting in the first row of the class facing the teacher.

- (i) D who is to the immediate left of F is second to the right of C.
- (ii) A is the second to the right of E, who is at one of the ends.
- (iii) J is the immediate neighbour of A and B and third to the left of G.
- (iv) H is to the immediate left of D and third to the right of I.
6. Who is sitting in the middle of the row?  
(a) B            (b) C            (c) I            (d) G
7. Which of the following statements is true in the context of the above seating arrangements?  
(a) There are three students sitting between D and G.  
(b) K is between A and J.  
(c) B is sitting between J and I.  
(d) G and C are neighbours sitting to the immediate right of H.
8. Which of the following group is sitting to the right of G?  
(a) CHDE    (b) CHDF    (c) IBJA    (d) ICHDF

9. In the above seating arrangement, which of the following statements is superfluous?  
(a) (i)            (b) (iv)            (c) (ii)            (d) None
10. If E and D, C and B, A and H and K and F interchange their positions, which of the following pairs of students is sitting at the ends?  
(a) D and E    (b) D and K    (c) D and A    (d) K and F

**Directions for Q11 to Q15:** Eight people P, Q, R, S, T, U, V and W are sitting in a row of chairs facing South. Each of them is drinking a different beverage – Tea, Coffee, Juice, Mineral Water, Lemonade, Cola, Coconut Water and Milk, but not necessarily in the same order. Q is sitting second to the left of U. The person drinking milk is an immediate neighbour of U. Only one person sits between the person drinking mineral water and P. The person drinking coffee is on the immediate right of the person drinking mineral water. W is second to the right of U. S is drinking milk. R and T are immediate neighbours. Neither R nor T is drinking mineral water. The person drinking lemonade is on the immediate left of Q. The person drinking cola is at the extreme East. The person drinking coffee is second at the extreme West. The person drinking coconut water is an immediate neighbour of the person drinking mineral water. R is in the sixth position to the left of the person drinking tea at the extreme West.

11. Who is second to the left of P?  
(a) Q            (b) V            (c) S            (d) T
12. What is the position of V with respect to the person drinking milk?  
(a) Second to the right            (b) Second to the left  
(c) Third to the right            (d) Third to the left
13. Who among the following is drinking coconut water?  
(a) Q            (b) U            (c) V            (d) W
14. Three of the following four are alike in a certain way based on the given arrangement and hence form a group. Which of the following does not belong to the group?  
(a) Mineral water-T            (b) Cola-U  
(c) Lemonade-V            (d) Tea-S
15. Which of the following person is drinking tea?  
(a) P            (b) R            (c) V            (d) T and S

**Directions for Q16 to Q18:** One of the renowned NGOs in India has taken on the challenge to save tigers in the country and has invited five film personalities to pose for photographs with the specially designed shirts and placards to convey the message. However, Shahrukh doesn't want to stand next to Salman as they have some problems between them. Vidya and Vivek wish to pose standing close to each other as there is more understanding between them. Bobby has some issues with Vivek as he misbehaved with him in a party and both are at logger heads. Vivek always loves to stand at the extreme right and would seldom compromise the position. Nevertheless, the problem was resolved somehow and it became a great message for the world in the best manner.

16. If Shahrukh is standing to the extreme left, who is standing in the middle?  
(a) Vivek (b) Salman (c) Vidya (d) Bobby
17. If Shahrukh stands to the extreme left, who stands fourth from left?  
(a) Vidya (b) Salman (c) Vivek (d) Bobby
18. If Vidya gets into a conflict with Vivek and doesn't want to stand next to him and Vivek is ready to give up his claim on extreme right position while Sharukh wants to stand second from right, who will stand on extreme right position?  
(a) Vidya (b) Salman  
(c) Bobby (d) Cannot decide

**Directions for Q19 and Q20:** Six persons – A, B, C, D, E and F – are sitting in two cars namely X and Y but not necessarily in the same order. Out of six persons two are driving the cars. There are three persons in each car and one person must be on front seat besides the person who is driving the car. In car X, D is neither driving nor sitting on the back seat. F is sitting on the back seat in Car Y. C is on the driver's seat but not in the Car X. A is neither driving nor travelling in the Car Y. E is not on the driver's seat in any car.

19. Who among the following is on the driver's seat in the Car X?  
(a) D (b) F  
(c) B (d) Cannot be determined
20. Who among the following is sitting on the front seat in the Car Y?  
(a) E (b) A  
(c) F (d) Cannot be determined

## HOME ASSIGNMENT

**Directions for Q1 and Q3:** Six persons – A, B, C, D, E and F – are sitting in two cars namely X and Y but not necessarily in the same order. Out of six persons two are driving the cars. There are three persons in each car and one person must be on front seat besides the person who is driving the car. In car X, D is neither driving nor sitting on the back seat. F is sitting on the back seat in Car Y. C is on the driver's seat but not in the Car X. A is neither driving nor travelling in the Car Y. E is not on the driver's seat in any car.

1. Which of the following groups of three persons are travelling in the Car X?  
(a) B, E and F (b) B, D and E  
(c) A, C and E (d) A, B and D
2. Which of the following pairs represents the persons sitting on the front seats in the Car X and Car Y respectively?  
(a) E and F (b) D and E (c) B and E (d) A and C
3. If D shifts his position to the driver's seat in his car, who will correspondingly shift his position to the driver's seat in the other car?  
(a) E (b) F (c) A (d) B

**Directions for Q4 to Q8:** Twelve people are sitting in two parallel rows containing six people each row in such a way that there is an equal distance between adjacent persons. In row-1 P, Q, R, S, T and V are seated and all of them are facing South. In row-2 A, B, C, D, E and F are seated and all of them are facing North. Therefore, in the given sitting arrangement each member seated in a row faces another member of the other row.

S sits third to right of Q. Either S or Q sits at an extreme end of the line. The one who faces Q sits second to right of E. Two people sit between B and F. Neither B nor F sits at an extreme end of the line. The immediate neighbor of B faces the person who sits third to left of P, R and T are immediately neighbors of each other. C sits second to the left of A. T does not face the immediate neighbor of D.

4. Who amongst the following sits at extreme ends of the rows?  
(a) S, D (b) Q, A (c) Q, F (d) V, C
5. Who amongst the following faces S?  
(a) A (b) B (c) C (d) D
6. How many persons are seated between V and R?  
(a) One (b) Two (c) Three (d) Four
7. P is related to A in the same way as S is related to B based on the given arrangement. To which of the following is T related to, following the same pattern?  
(a) C (b) D  
(c) E (d) Cannot be determined
8. Four of the following five are alike in a certain way based on the given arrangement and so form a group. Which is the one that does not belong to that group?  
(a) A - T (b) B - T (c) F - P (d) E - Q

**Directions for Q9 and Q10:** Six plays – A, B, C, D, E and F are to be staged, one on each day from Monday to Saturday. The schedule of the plays is to be in accordance with the following.

- (i) A must be staged a day before E.
  - (ii) C must not be staged on Tuesday.
  - (iii) B must be staged on the day following the day on which F is staged.
  - (iv) D must be staged on Friday only and should not be immediately preceded by B.
  - (v) E must not be staged on the last day of the schedule.
9. Which of the following plays is on Monday?  
(a) E (b) F (c) C (d) B
  10. Which of the following plays is on Tuesday?  
(a) E (b) F (c) C (d) B

## ANSWER KEY

1. (d) 2. (b) 3. (a) 4. (d) 5. (a)
6. (b) 7. (b) 8. (d) 9. (b) 10. (d)