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11. The number of ways in which 10 persons can be seated at a round table so that 3 particular persons are seated together is

(A) 720 (B) 5040 (C) 7200 (D) 50400

ANSWER: (C)

Solution: Let the 3 persons be A, B and C. Then the remaining 7 persons can be seated in 7! ways. Now, A, B and C can be seated together in 3! ways. Hence, the total number of ways in which 10 persons can be seated at a round table so that 3 particular persons are seated together is  $7! \times 3! = 7200$ .

12. The number of ways in which 10 persons can be seated at a round table so that 3 particular persons are seated together is

(A) 720 (B) 5040 (C) 7200 (D) 50400

ANSWER: (C)

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