Seating Arrangement Questions Overview

Seating Arrangement Questions have a good weightage in the Banking Exam and the type of question asked in Banking exam is similar to the question mentioned below. It has been solved and explained by Gargi.ai Experts and they have tried to elaborate the concept used in Seating Arrangement Questions.

Seating Arrangement Questions

Direction: Read the given information carefully and answer the following questions. Eight persons are sitting around a circular table in such a way some are facing inside while some are facing outside the table. Each of them invests a different amount of money. No one invests more than 30k. F sits second to the left of M. Two persons sit between M and L who sits second to the right of K who is an immediate neighbour of F. The one who sits second to the left of K sits third to the right of O. Number of persons sit between R and G when counted right of G is one more than the number of persons sit between T and G when counted left of T. Neither O nor T sits opposite to M. Immediate neighbour of L faces opposite directions. L faces the same direction as G but opposite to F who does not face O. R invests more than M. Difference between the investments of M and O is 5k. T invest an amount which is a cube of a number. The difference between the amount invested by F and K is equal to the investment of O. M invests more amount than K. There are some other conditions are given- 1- P@Q = P invests double the amount invested by Q 2- P *= The one who sits second to the right of the one who sits third left of P, has 1.5 times the amount of P. 3- P#Q = Difference between the amount of P and Q is 1500 less than the one who sits third right of Q. 4- P%= Sum of the amount of the one who sits immediate right and immediate left of P is 7500 less than P. 5. P$Q = Investment of P and Q is a square of a number and the difference between their investment is also the square of a number. Note- G@O, F*, K#M, R%, M$R

Question

What is the amount invested by the one who sits third to the right of M?

Difficulty : Moderate

Average Time : 117 Seconds

Options :

1. 11000
2. 10500
3. 22000
4. 7000

None of these

Solution

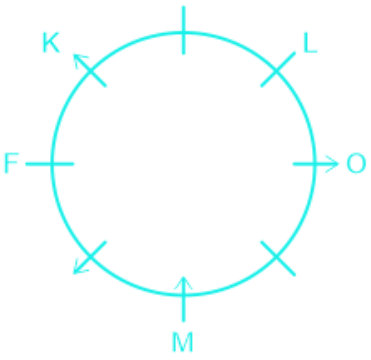
The correct answer is **Option 2** i.e. **10500**

1. F sits second to the left of M. (There are two possibilities.)

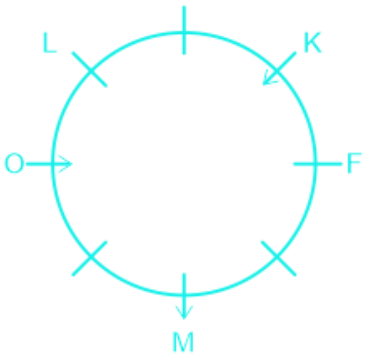
2. Two persons sit between M and L who sits second to the right of K who is an immediate neighbour of F.

3. The one who sits second to the left of K sits third to the right of O.

4. Neither O nor T sits opposite to M.



Case -1



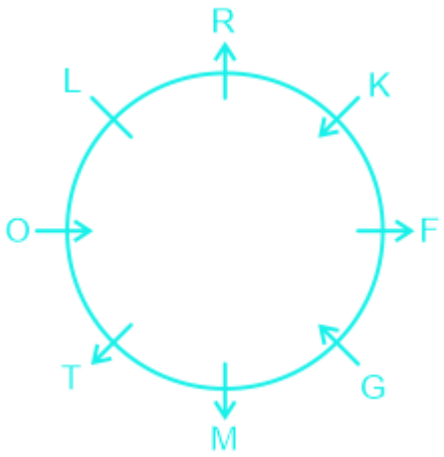
Case -2

5. G is neither an immediate neighbour of K nor faces the same direction as M.

5. Number of persons sit between R and G when counted right of G is one more than the number of persons sit between T and G when counted left of T.

6. Immediate neighbour of L faces opposite directions.

7. L faces the same direction as G but opposite to F who does not face O. (from this condition case 1 will be eliminated because in this case F faces O).

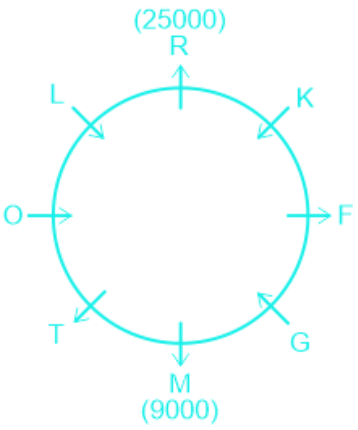


Now applied the given conditions to find the investments of the persons.

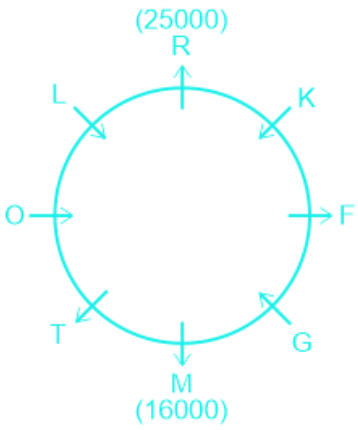
1. M$R means the investment of M and R is a square of a number and the difference between their investment is also the square of a number.

2. R invests more than M.

(It means M and R either invests 9k and 25k or 16k and 25k)



Case -1



Case -2

3. K#M means the difference between the amount of K and M is 1500 less than the one who sits third right of M.

4. M invests more amount than K.

(These conditions formed two equations-

a. M-K+1500=L, then put the value of M is 9000 for case 1

So, L+K=10500

b. M-K+1500=L, put the value of M is 16000 for case 2

So, L+K = 17500)

5. R% means the sum of the amount of the one who sits immediate right and immediate left of R is 7500 less than R. (That means the sum of the investments of L and K is 17500(25000-7500))

From these two conditions, case-1 will be eliminated because in this case sum of investment of L and K is 10500 which does not satisfy the R% condition)

6. G@O means G invests the double amount of O.

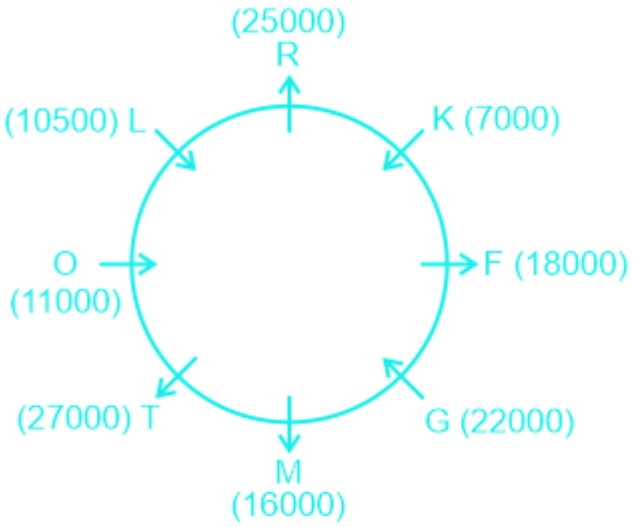
7. Difference between the investments of M and O is 5k.

(Hence O invests 11000 and G invests 22000)

8. F* means the one who sits second to the right of the one who sits third left of F, has 1.5 times the amount of F.

9. T invest an amount which is a cube of a number.

10. The difference between the amount invested by F and K is equal to the investment of O.



From the above arrangement, L sits third to the right of M and invests 10500.

Hence, the correct answer is **10500.**