## ASSIGNMENT

1. The time taken by four trainees for four different jobs is given below. How should the assignment of jobs should be done to the trainees so that the total time is minimum

Trainee	Р	Q	R	S
A	12	15	18	8
В	13	10	9	14
С	10	12	15	13
D	7	8	9	14

**Answer**: S to A, R to B, P to C, Q to D.

Total time: 35

2. The cost of assigning the jobs to the different machines is given below. Assign the jobs to minimize the cost.

Machine	Ι	II	III	IV
1	2	10	9	7
2	15	4	14	8
3	13	14	16	11
4	4	15	13	9

Answer: 1 to III, 2 to II, 3 to IV, 4 to I

Total cost= 28 Rs.

3. The travelling costs (in hundred Rs.) of 4 salesmen for 3 different territories are given. Assign the salesman for each territory to minimize the travelling cost.

Salesman	A1	A2	A3
1	7	4	5

2	5	6	4
3	4	9	3
4	7	7	5

**Answer**: 1 to A1, 3 to A2, 4 to A3.

Total cost= 21 Rs.