

Q. 3. Write notes on. (Any Two) (10)

1. Write down various reasons for replacement of machines and equipment.
2. Transportation problem.
3. Assumptions in game theory

SECTION – II

Q. 4. Case Study (15)

Solve the following assignment problem for **MAXIMIZATION** of sales –

Salesman	Districts				
	A	B	C	D	E
P	30	38	40	28	40
Q	40	24	28	21	36
R	41	27	33	30	37
S	22	38	41	36	36
T	29	33	40	35	39

Q. 5. Answer the following: (10)

- a) Define queue. Discuss the structure of a queuing system with suitable diagram.

OR

- b) Solve the following transportation problem by using Least cost method -

From	To			Supply
	P	Q	R	
A	2	7	4	5
B	3	3	1	8
C	5	4	7	7
D	1	6	2	14
Demand	7	9	18	