



- Notes : 1. Answer **Three** question from Section A and **Three** question from Section B.
 2. Assume suitable data wherever necessary.
 3. Illustrate your answer necessary with the help of neat sketches.

SECTION - A

1. a) State the queuing & simulation models briefly. 4
 b) Maximize, $P = 30x_1 + 40x_2$ 9
 Subject to $2x_1 + x_2 \leq 10$
 $x_1 + x_2 \leq 7$
 $x_1 + 2x_2 \leq 12$
 $x_1, x_2 \geq 0$

OR

2. a) Explain shortly about operation research. 4
 b) Maximize, $P = 70x_1 + 50x_2$ 9
 Subject to $4x_1 + 3x_2 \leq 240$
 $2x_1 + x_2 \leq 100$
 $x_1, x_2 \geq 0$
3. a) What do you mean by transportation model? 4
 b) Solve the numerical by transportation problem. 10

To \ From	A	B	C	supply
1	4	3	8	300
2	7	5	9	300
3	4	5	5	100
Demand	200	200	300	

OR

4. a) What do you mean by assignment model? 4
 b) Solve by Assignment method. 10

	I	II	III	IV
1	13	4	7	6
2	1	11	5	4
3	6	7	2	8
4	1	3	5	9

5. a) Explain the types of simulation modeling. 6
b) Explain the inventory management system. 7

OR

6. a) Explain briefly queuing theory. 6
b) Explain briefly the Replacement theory. 7

SECTION – B

7. a) Explain in detail time value of money. 6
b) What do you mean by capital budgeting? 7

OR

8. a) Describe in brief "Break even analysis". 7
b) Explain in detail investment decisions under risk and uncertainty. 6
9. a) Explain the importance of managerial economics. 6
b) State the objectives of business firms. 7

OR

10. a) State the concept used in Business decisions. 6
b) Explain in detail the social responsibility of private Business. 7
11. a) What do you mean by cost plus pricing? 7
b) Explain in detail multiple product pricing. 7

OR

12. a) What do you mean by competitive bidding of price? 7
b) Explain with example Equi-Marginal principle. 7
