

Total No. of Questions - 10]
(2022)

[Total Pages : 3

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M.B.A. Examination

MANAGEMENT SCIENCE-II

Paper – 202

(Semester-II)

Time : Three Hours]

[Maximum Marks : 60

The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary/continuation sheet will be issued.

Note : Attempt *five* questions in all, selecting *one* question from each unit. All questions carry equal marks.

UNIT-I

1. What is the scope for quantification of Business Problems into Mathematics ?
2. Write short note on :
 - (a) Inequalities.
 - (b) Interrelations in Continuous Functions.

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UNIT-II

3. Write the role and significance of O.R. in Business Management.
4. State the areas of application of Operational Research in Financial Management with some examples.

UNIT-III

5. List and explain the assumptions of linear programming.

6. Maximize $Z = 6X_1 + 20X_2$,
Subject to : $2X_1 + X_2 \leq 32$,
 $3X_1 + 4X_2 \leq 80$,
 $X_1 \geq 8, X_2 \geq 10$

Find the optimal Solution of the above Linear Problem by Simplex Method.

UNIT-IV

7. Explain meaning Transportation problem, its importance, assumptions and practical implication with a suitable example.
8. Find the initial basic feasible solution of the following transportation problem by Least Cost Method (LCM):

	D	E	F	C	Availability
A	11	13	17	14	250
B	16	18	14	10	300
C	21	24	13	10	400
Required	200	225	275	250	

UNIT-V

9. Formulate the following game as an LPP and obtain its solution.

		B's Strategy		
		B ₁	B ₂	B ₃
A's Strategy	A ₁	8	9	3
	A ₂	2	5	6
	A ₃	4	1	7

10. What is the criteria of choosing strategies ? Explain Pure and Mixed strategies.
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