

Total No. of Questions – 10]

[Total Pages : 3

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M.B.A. Examination

MANAGEMENT SCIENCE-II

Paper-202

(Semester-II)

Time : Three Hours]

[Maximum Marks :

{ Regular : 60
ICDEOL : 70

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 meant by Functional Analysis? Explain the role of Functional Analysis in Business.**
- 2. Explain the process of Operational Research Methodology for solving problems of business.**

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UNIT-II

3. Explain O.R. Methods Operational Research Model Formulation and various types of model.
4. What is the meaning of Operational Research? Discuss the objectives of Operational Research and its scope in scientific business decision-making.

UNIT-III

5. Solve the following LP graphically :

$$\text{Minimize } Z = 20X_1 + 10X_2$$

$$\text{Subject to : } X_1 + 2X_2 \leq 40,$$

$$3X_1 + X_2 \geq 30,$$

$$4X_1 + 3X_2 \geq 60,$$

$$X_1 \text{ and } X_2 \geq 0.$$

6. Define Graphic Method to solve Linear Programming Problems in respect of maximization and minimization.

UNIT-IV

7. Consider the following transportation problem and Determine initial basic feasible solution by VAM

	D ₁	D ₂	D ₃	D ₄	Availability
O ₁	5	8	3	6	30
O ₂	4	5	7	4	50
O ₃	6	2	4	6	20
Requirement	30	40	20	10	

8. What are the types of methods of Transportation problem? Which is best suitable method in solving transportation problem?

UNIT-V

9. Explain the application, assumption and limitation of game theory.
10. (i) Explain saddle point and Two-person Zero-sum games.
(ii) Solve the following game :

		B's Strategy	
		B ₁	B ₂
A's Strategy	A ₁	28	0
	A ₂	2	12
	A ₃	4	7
