

**Sixth Semester B.E. Degree Examination, Dec.2013/Jan.2014**  
**Operations Research**

Time: 3 hrs.

Max. Marks:100

*Note: Answer FIVE full questions, selecting  
at least TWO questions from each part.*

**PART – A**

1. a. What is operation research? Mention six phases of an operation research study. (05 Marks)  
 b. A manufacturer produces three models I, II, III of certain product using raw materials A and B. The following table gives the data for the problem formulate the LP model:

| Raw material          | Requirement per unit |     |     | Availability |
|-----------------------|----------------------|-----|-----|--------------|
|                       | I                    | II  | III |              |
| A                     | 2                    | 3   | 5   | 4000         |
| B                     | 4                    | 2   | 7   | 6000         |
| Min demand            | 200                  | 200 | 150 | -            |
| Profit per unit (Rs.) | 30                   | 20  | 50  | -            |

(05 Marks)

c. Define:

- Feasible solution
- Feasible region
- Optimal solution
- Degeneracy
- Infeasible solution.

(10 Marks)

2. a. Define slack and surplus variables. (04 Marks)  
 b. Find all the basic solutions of the following system of equation identifying in each case the basic and non basic variables:

$$2x_1 + x_2 + 4x_3 = 11$$

$$3x_1 + x_2 + 5x_3 = 14$$

(06 Marks)

- c. Solve the following LPP using simplex method in tabular form:

$$\text{Maximize } Z = 5x_1 + 3x_2$$

$$\text{Subject to, } x_1 + x_2 \leq 2$$

$$5x_1 + 2x_2 \leq 10$$

$$3x_1 + 8x_2 \leq 12$$

$$x_1, x_2 \geq 0$$

(10 Marks)

3. a. Express the following LPP in canonical form

$$\text{Maximize } Z = 2x_1 + 3x_2 + x_3$$

$$\text{Subject to, } 4x_1 - 3x_2 + x_3 \leq 6$$

$$x_1 + 5x_2 - 7x_3 \geq -4$$

$$x_1, x_2 \geq 0$$

(06 Marks)

- b. Explain the computational steps of Big-M method. (04 Marks)

c. Solve by Big-M method

$$\text{Minimize } Z = 4x_1 + x_2$$

$$\text{Subject to, } 3x_1 + x_2 = 3$$

$$4x_1 + 3x_2 \geq 6$$

$$x_1 + 3x_2 \leq 3$$

$$x_1, x_2 \geq 0.$$

(10 Marks)

# Question Paper On Mg1402 Operation Research

**Joseph F. McCloskey**



## Question Paper On Mg1402 Operation Research:

**Students Guide to Operations Research** Paul A. Jensen,1986-06-01      **Student's Guide to Operations Research**  
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a significant contribution to the available technical literature on military and commercial test and evaluation T E The first  
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defense weapons systems Subsequent chapters cover such concepts as cost and operational effectiveness analysis modeling  
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Philip McCord Morse,1952      **Operations Research** Maurice Sasieni,Arthur Yaspan,Lawrence Friedman,2013-09      *Great*  
*Ideas of Operations Research* Jagjit Singh,1972      Introduction to Operations Research Billy E. Gillett,1979-09      **Methods**  
**of Operations Research** Philip McCord Morse,George E. Kimball,1958      **Methods of Operations Research** Rudolf  
Henn,1967      *Operations Research Methods* Bose,2005      *A Guide to Operational Research* Walter Eric Duckworth,1965  
*A Guide to Operational Research* Walter Eric Duckwood,1970      *Operations Research Methods* Nagel S S.,Neef M.,1986  
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