

Second Semester M.Sc. (Mathematics)

Examination Aug/Sep-2015

Operation Research

Time:-3Hours

Max. Marks:-80

SECTION-A

Answer any five questions.

(6*5)

1. Solve the equation $x^5 + 1 = 0$
2. Draw the flow chart for systematic application.
3. Find the minima and maxima value of the following game:-

1	3	6
2	1	3
6	2	1

4. What do you mean by the general structure of transportations?
5. Comment on the Tabular Representation.
6. Write a short note on initial basic feasible solution to Transportation Problem.
7. Clarify the method of solving operation research models.

SECTION-B

Answer any two questions.

(10*2)

8. Enumerate the characteristics of Game Theory.
9. Elaborate the application of Operations Research.
10. Describe the North West Corner Rule in detail.

SECTION-C

Answer any two questions.

(15*2)

11. Discuss the properties of Poisson process of Arrivals.
12. Elaborate the LPP models along with examples.
13. Explain Column Minima Method in detail.