**MATH 2.5**

**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 x5 + 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 |

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

**SECTION-B**

**Answer any two questions. (10\*2)**

1. Enumerate the characteristics of Game Theory.
2. Elaborate the application of Operations Research.
3. Describe the North West Corner Rule in detail.

**SECTION-C**

 **Answer any two questions. (15\*2)**

1. Discuss the properties of Poisson process of Arrivals.
2. Elaborate the LPP models along with examples.
3. Explain Column Minima Method in detail.