**OPERATION RESEARCH – I**

**UNIT-1**

**Methods**

* Graphical method

(Max or min)

**Questions**

1. Explain different phases of operations research.
2. Define OR. Explain its scope and limitations.

**Or**

Explain the uses and limitations of OR.

1. Explain the characteristics of OR.

**UNIT-2**

**Methods**

* Simplex method
* Two phase simplex method
* Big-m
* Dual simplex method

**Questions**

Steps to solve each method.

**UNIT-3**

**Methods**

Transportation problem

* North-West corner method
* Vogel’s approximation method
* least cost method

**Questions**

Explain each method in detail and steps to solve that 😁😀.

**UNIT-3**

**Methods**

* Branch and Bound method.
* Hungarian method

**Questions**

1. What is an assignment problem ? Give the mathematical formulation of an assignment problem.
2. Explain different methods used to solve the assignment problem.