

[Summary] [Transportation Problem (Part - 2)]

Subject:	Business Economics
Course:	B.A., 4 th Semester,
	Undergraduate

Paper No. & Title:

Unit No. & Title:

Paper -403(Four Zero Three) International Economics

Unit – 2(two) Transportation & Assignment

Lecture No. & Title:

2(Two): Transportation Problem Part-2

SUMMARY

 Methods namely North West corner, Matrix minima and Vogel's are used for obtaining initial basic feasible solution.

• Test for Optimality

Optimality test can be performed if two conditions are satisfied i.e.

- 1. There are m + n 1 allocations.
- 2. These m + n 1 allocations should be at independent positions.
- Two methods commonly used to obtain optimal solution of the transportation problem are
 Stepping Stone Method 2. MODI method
 - 1. Stepping Stone Method 2. MODI method
- The **stepping-stone method** will help us move from an initial feasible solution to an optimal solution. It is used to evaluate the cost effectiveness of transporting goods via transportation routes not currently in the solution.
- The Modified Distribution Method (MODI) is a method for computing optimum solution of a transportation problem.
- In this method the sign of each opportunity cost is checked. If the opportunity costs of all the unoccupied cells are either positive or zero, the given solution is the optimum solution. On the other hand, if one or more unoccupied cell has negative opportunity cost, the given solution is not an optimum solution and further savings in transportation cost are possible.