School of Finance and Commerce
Department of Finance and Commerce
Mid Term Examination

Exam Date: 30 Sep 2023
Time : 90 Minutes
Marks : 50

Sem III - MBAF0904 - Quantitative Techniques for Managers
Your answer should be specific to the question asked
Draw neat labeled diagrams wherever necessary

1) Infer the mathematical formula of transportation problem. K2 (2)

2) Outline the conditions for the application of optimality test in case of transportation problem? Briefly explain as to why these conditions should be satisfied. K1 (3)

3) Extend the features of assignment problem K2 (4)

4) Explain the infeasible solution in linear Programming, and how does it occur? How is this condition recognized in the graphical method? K2 (6)

5) Demonstrate the conditions in the LPP having more than one optimal solution? K3 (6)

6) Construct the unbound solution, and how does it occur in graphical method? K3 (9)

7) "It is an improved version of the Minimum Cell Cost Method and the Northwest Corner Method", Point out the method stated in this statement. K4 (8)

8) Simplify the situation of optimally in assignment problem. K4 (12)

OR

A company produces two types of items P and Q that require gold and silver. Each unit of type P requires 4g silver and 1g gold while that of type Q requires 1g silver and 3g gold. The company can produce 8g silver and 9g gold. If each unit of type P brings a profit of `44 and that of type Q `55, Illustrate the number of units of each type that the company should produce to maximise the profit. What is the maximum profit? K4 (12)