Roll No. .....
4600 20/40/20/20

C-317

August 2022

Bachelor of Business Administration (BBA) Examination

(Full Time) (New) Fourth Semester

BBA-402 : SUPPLY CHAIN MANAGEMENT

B-401

Time 3 Hours] [Max. Marks 80

Note : Attempt any three questions from Section A. Each question in this section carries 16 marks. Attempt any two questions from Section B. Each question in this section carries 16 marks.

Section A

1. (a) Explain concept of Supply Chain and its key components.
   (b) What are the key drivers of Supply Chain Management Performance ?

2. Explain briefly :
   (a) ERP (Enterprise Resource Planning)
   (b) Packaging Role in Supply Chain Management
   (c) Safety Inventory
   (d) Role of Supply Chain in B2B Practices.

3. (a) "Customer Service Strategy can be explained as a three step process." What are they and explain them ?
   (b) A warehouse is no longer a storage place, but a place that creates value. Explain.

4. (a) Explain the different factors that influence the Network Design Decisions.
   (b) What are the important ideas that a Manager of IT Company should keep in mind while making decision regarding supply chain in IT ?

5. (a) Explain the importance of distributors in Supply Chain Management.
   (b) Explain how to manage Supply Chain Cycle Inventory.

Section B

6. The coordinate location of a manufacturer is (40, 60). The coordinate location of its supplies is (20, 10). The manufactures is required to supply 200 compressors for this supplier. The cost of transporting one compressor is Rs. 100. Using Gravity Location Model, determine the distance between the manufacturer and supplier and the total transportation cost.

7. The annual demand for an item is 3,200 units. The unit cost is Rs. 6.00 and the inventory carrying charges is 25% per annum. If the cost of one procurement is Rs. 150.00, determine :
   (a) Economic Order Quantity
   (b) Number of Orders Per Year
   (c) Time between two Consecutive Orders
   (d) Total Optimal Cost Including Purchase Cost.

P. T. O.

8 Consider a single facility location problem in which a new plant will supply raw materials to five existing plants which have locations of (400, 200), (800, 500), (1100, 800), (200, 900) and (1300, 300). Assuming that the number of tons of materials transported per year from the new plant to the existing plants as 450, 1200, 300, 800 and 1500 respectively, determine the optimum location for the new plant such that the distance moved is minimized.

9. Determine optimal number of units to order. The yearly demand is 5,000 units, ordering cost is Rs. 1,000 per order and inventory holding cost is Rs. 10 per unit per year. Calculate the setup cost, holding cost and total inventory cost. Number of working days in a year is 250 days. What is the ROP if the lead time for the order is 5 days ? Due to change in suppliers the lead time has been revised to 3 days. What is the new ROP ?
