

PGD (L&SCM) Semester-2 Examination

SCM

Time : 2-30 Hours]

April-2024

[Max. Marks : 70]

Marks to the right indicate full marks.

Q1 and Q5 are compulsory.

Q2-Q4 contain options.

1. For conducting an inventory analysis, explain the following concepts briefly. [14 Marks]
 - a. Cycle Inventory
 - b. Inventory Holding Cost
 - c. Ordering Cost
 - d. Economic order quantity
2. Explain the Distributor Storage with Last Mile Delivery distribution network design and summarize the various cost and service factors of this network. [14 Marks]

OR

2. StoreSolutions, firm that provides warehousing services, is facing a decision regarding the amount of space to lease for a period of 2 years. The general manager has forecast that StoreSolutions will need to handle a demand of 15000 units per month. The spot market rate is Rs. 10 per square foot. The manager forecasts that from one year to the next, demand may go up by 20 percent with a probability of 70 percent or go down by 10 percent with a probability of 30 percent. From one year to the next, spot prices for warehouse space may go up by 20 percent with probability of 0.8 or go up by 10 percent with a probability of 0.2. Consider a discount factor of 10%. Each unit that StoreSolutions keeps generates a revenue of Rs. 15. Using a decision tree analysis upto the next year ($T=1$), calculate the Net Profitability that can be expected in the current time period ie. Time Period $t=0$. [14 Marks]
3. Discuss managerial levers that help to achieve coordination in a supply chain. [14 Marks]

OR

3. Elucidate the methodologies utilized by companies to attain strategic alignment between their supply chain strategy and competitive strategy. Provide examples to illustrate practical implementations of strategic fit. [14 Marks]
4. Imagine yourself to be supply chain manager of Paras pvt Ltd. What factors will you consider to outsource a supply chain function? [14 Marks]

OR

4. Discuss the significance of information technology in optimizing supply chain Management. Highlight its role in enhancing efficiency, visibility, and coordination across various stages of the supply chain. [14 Marks]
5. A. Evaluate the impact of global disruptions, such as COVID19 pandemic or trade conflicts on supply chain resilience. How can companies build more resilient supply chain in the face of such disruptions? [07 Marks]
- B. How could an auto manufacturer use transportation to increase the efficiency of its supply chain? [07 marks]