

- (c) Air
 - (d) Sea
- 1-d. The primary consideration in warehouse facility location includes:CO4 1
- (a) Proximity to suppliers
 - (b) Availability of labor
 - (c) Access to transportation networks
 - (d) All of the above
- 1-e. NOT a characteristic of a closed-loop supply chain:CO5 1
- (a) Continuous material flow
 - (b) Minimal waste generation
 - (c) Limited product lifespan
 - (d) Product reuse and recycling

2. Attempt all parts:-

- 2.a. Define lead time in logistics.CO1 2
- 2.b. Describe the role of inventory management in logistics.CO4 2
- 2.c. Name two types of ships used in ocean transportation.CO3 2
- 2.d. Define the concept of warehousing.CO4 2
- 2.e. Explain GSCM differ from traditional supply chain management.CO5 2

SECTION B

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3. Answer any three of the following:-

- 3-a. Discuss the primary objectives of logistics and supply chain management.CO1 5
- 3-b. Explain how does logistics management contribute to gaining a competitive advantage for businesses.CO2 5
- 3.c. Discuss the role of containerization in ocean transportation.CO3 5
- 3.d. Explain the concept of fourth-party logistics (4PL) and its role in modern supply chains.CO4 5
- 3.e. Compare and contrast GSCM with traditional supply chain management in terms of cost and efficiency.CO5 5

SECTION C

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4. Answer any one of the following:-

- 4-a. Explain the concept of Total Quality Management (TQM) and its relevance to supply chain management.CO1 6
- 4-b. Evaluate the effectiveness of a company's reverse logistics process and suggest 6

improvements.CO1

5. Answer any one of the following:-

5-a. A manufacturing company wants to reduce transportation costs. Outline a strategy they can implement to achieve this goal.CO2 6

5-b. A retail chain is experiencing inventory stockouts frequently. Suggest solutions to improve their inventory management processes.CO2 6

6. Answer any one of the following:-

6-a. Propose a crisis management plan for a shipping company to address the risks associated with piracy in high-risk maritime routes.CO3 6

6-b. Develop a cost-benefit analysis for investing in alternative fuel vehicles for a fleet management company, considering factors such as fuel savings, environmental benefits, and upfront investment costs.CO3 6

7. Answer any one of the following:-

7-a. You are tasked with designing a warehouse layout for a company specializing in perishable goods. Explain how would you optimize the layout to ensure efficient storage and distribution.CO4 6

7-b. You are managing the logistics operations for a company that deals with high-value, fragile goods. Propose a risk mitigation strategy to ensure the safety and security of these goods throughout the warehousing and distribution process.CO4 6

8. Answer any one of the following:-

8-a. Develop a green supply chain policy for a retail company.CO5 6

8-b. Investigate the use of big data analytics in optimizing green supply chain operations.CO5 6