

**Online PGDM**

**Second Year, Trimester, Sept 2024**

**Course Name : Logistics Management**

**Max Marks : 70**

**Course Code : 4112**

**Max Time : 2 hrs**

*Instructions for Students: Attempt all questions.*

**Section A : Objective Type Questions**

**Max. Marks-20**

1. Which of the following is a key benefit of implementing a just-in-time (JIT) inventory system?
  - A. Increased safety stock levels
  - B. Reduced inventory carrying costs
  - C. Longer lead times
  - D. Higher warehousing costs
  
2. The primary purpose of a Transportation Management System (TMS) is to:
  - A. Plan and optimize transportation routes
  - B. Increase production efficiency
  - C. Track warehouse inventory levels
  - D. Manage customer relationships
  
3. The term 'Third-Party Logistics' (3PL) refers to:
  - A. Companies that own their logistics operations
  - B. Outsourcing logistics functions to external service providers
  - C. Government-managed logistics operations
  - D. Using only air freight for transportation
  
4. Which of the following is a characteristic of a 'hub-and-spoke' distribution system?
  - A. Direct shipping from manufacturer to retailer
  - B. Consolidation of goods at a central location before delivery
  - C. Exclusive use of rail transportation
  - D. Distribution without any intermediate stops

5. Supply chain visibility refers to:

- A. The ability to forecast demand accurately
- B. The ability to see the entire supply chain in real-time
- C. Ensuring that suppliers have visibility into company operations
- D. Reducing the visibility of inventory levels

6. The bullwhip effect in supply chain management describes:

- A. The amplification of demand variability as it moves upstream in the supply chain
- B. The smooth flow of products through the supply chain
- C. The reduction of inventory levels at each stage
- D. The use of technology to manage logistics operations

7. Cross-docking is a logistics strategy that involves:

- A. Long-term storage of goods in warehouses
- B. The direct transfer of goods from inbound to outbound shipments without storage
- C. Implementing just-in-time (JIT) inventory management for all products
- D. Outsourcing logistics operations to a third-party logistics (3PL) provider

8. Green logistics practices primarily focus on:

- A. Reducing transportation costs
- B. Enhancing environmental sustainability by reducing carbon footprints
- C. Increasing the speed of deliveries
- D. Outsourcing logistics to reduce operational burdens

9. Dedicated Freight Corridors (DFCs) are designed to:

- A. Increase storage capacity in warehouses
- B. Enhance the efficiency and speed of freight movement across regions
- C. Reduce reliance on rail transportation
- D. Increase the number of distribution centers in urban areas

10. Blockchain technology in logistics can be used to:

- A. Automate warehouse management

- B. Improve transparency and traceability throughout the supply chain
  - C. Eliminate the need for physical transportation
  - D. Reduce the size of logistics teams
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### **Section B: Subjective Type Questions (Short Answer Questions)**

**Max. Marks - 10**

1. **Explain the significance of transportation management in logistics.**  
Discuss how an efficient transportation system can impact overall logistics operations. Consider factors such as cost, speed, reliability, and customer satisfaction.
  2. **A company is experiencing frequent stockouts despite high inventory levels.**  
Identify potential causes related to warehousing and inventory management practices. Suggest strategies to address these issues and improve inventory accuracy.
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### **Section C: Subjective Type Questions (Long Answer Questions)**

**Max. Marks - 40**

#### **Case Study: The Logistics Challenges of E-commerce Expansion**

With the rise of e-commerce, Company ABC, a medium-sized retail business, decided to expand its operations nationwide. However, the expansion introduced significant logistics challenges. The company faced difficulties in maintaining timely deliveries, optimizing warehouse operations, and managing last-mile delivery costs. The increased demand also put pressure on the existing logistics infrastructure, leading to inefficiencies and customer dissatisfaction.

1. **Analyze the key logistics challenges Company ABC faces during its e-commerce expansion.**  
What steps should the company take to optimize transportation, warehousing, and last-mile delivery operations?
2. **Consider the importance of warehouse location and design in the context of Company ABC's expansion.**  
How can strategic warehouse placement and efficient warehouse operations reduce costs and improve delivery times?
3. **Company ABC is considering outsourcing its last-mile delivery operations to a third-party logistics provider (3PL).**  
Evaluate the potential benefits and risks of outsourcing this critical logistics function.
4. **Reflect on a situation where logistics bottlenecks affected your organization or a company you know.**  
How were these bottlenecks addressed, and what lessons can Company ABC learn from that experience to improve its logistics operations?