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MMPL-002

**M. B. A. (LOGISTICS AND SUPPLY
CHAIN MANAGEMENT) (MBALS)**

Term-End Examination

December, 2025

**MMPL-002 : INVENTORY AND STORES
MANAGEMENT**

Time : 3 Hours

Maximum Marks : 100

***Note :** Attempt any **five** questions. All questions carry equal marks. Assume missing data suitably, if any.*

1. Define Inventory. Explain the role of inventory in balancing supply and demand, decoupling operations and achieving cost efficiency in supply chains.

2. A construction firm uses 48,000 bricks per year. The ordering cost is ₹ 500 per order and holding cost is ₹ 2 per brick per year.
- (a) Calculate the EOQ.
 - (b) Determine the number of orders per year and the time between the orders.
 - (c) What would be the total cost, total ordering cost and holding cost ?
3. Explain the concept and applications of ABC-VED matrix in inventory categorization. How can this matrix enhance material control and decision-making in inventory management ?
4. What is Material Requirement Planning (MRP) ? Explain the components and steps involved in implementing MRP systems. How does MRP-II extend the functionality of MRP-I ?

5. Explain the key responsibilities of the store department in a manufacturing or in a construction setup. How does systematic record-keeping support inventory audits ?
6. Discuss the impact of delivery lead time demand patterns and service levels on safety stock decisions. Explain how safety stock is determined.
7. Write short notes on any *four* of the following :
 - (a) Inventory turnover ratio
 - (b) Codification and standardization
 - (c) Warehouse cost elements
 - (d) Periodic *vs.* Continuous review systems
 - (e) Make or buy decision in inventory management
 - (f) Role of MRO (Maintenance, Repair and Operating) inventory

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