No. of Printed Pages : 3 **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.*

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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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