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MWR-001

**POST GRADUATE CERTIFICATE IN
INVENTORY PLANNING AND
WAREHOUSING SYSTEM
(PGCIPWS)**

Term-End Examination

June, 2026

**MWR-001 : INTRODUCTION TO INVENTORY
PLANNING AND CONTROL**

Time : 3 Hours

Maximum Marks : 70

Note : (i) Attempt any **seven** questions.

(ii) All questions carry equal marks.

(iii) Use of Scientific calculator is allowed.

1. List out the various costs associated with Inventory control. Deduce the expression for Economic Order Quantity (EOQ). Write the assumptions considered in EOQ model.

5 + 5

2. With the help of suitable examples, explain the meaning and importance of the following : 5 + 5
- (a) Decoupling Inventory
 - (b) Transit Inventory
3. Describe the following Inventory control Techniques : 5 + 5
- (a) ABC Analysis
 - (b) VED Analysis
4. A company uses 10000 units per year of an item. The purchase price is Rs. 1,000 per item. Ordering cost is Rs. 26,0000 per order. Carrying cost per year is 12% of the inventory value. Find : 3 + 3 + 4
- (a) The EOQ
 - (b) The number of order per year
 - (c) If the lead time is 4 weeks and assuming 60 working weeks per year, find the re-order point.
5. Discuss the following characteristics of multi-Inventories : 10
- (a) Number of Supply Echelon
 - (b) Number of stages of inventory
 - (c) Delivery lag
 - (d) Number of items.

6. (a) Discuss the purpose of physical verification of stocks.
(b) Outline the procedure for stock verification. 5 + 5
7. Discuss the FIFO price method of costing of stock issued and valuation of stock in hand. 10
8. Discuss the challenges with reference to the use of ICTs in inventory management. What strategies would you apply to encounter these challenges ? 10
9. Describe why industries allow shortages in inventory stocking ? Discuss its advantages and limitations. 10
10. Write short notes on any *two* of following : 10
- (a) Inventory Audit
(b) Inventory Management System
(c) Advantages and disadvantages of bulk purchasing
(d) Qualitative methods of demand forecasting.

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