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**MWR-001**

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

**Term-End Examination**

**June, 2024**

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

*Time : 3 Hours*

*Maximum Marks : 70*

**Note :-** (i) Answer any *seven* questions.

(ii) All questions carry equal marks.

(iii) Use of calculators is allowed.

1. List out various costs associated with inventory. Deduce the expression for Economic Order Quantity (EOQ). 5+5=10
2. Explain the meaning and importance of the following : 5+5=10

**P.T.O.**

- (a) Transit inventory
  - (b) Decoupling inventory
3. Distinguish between the situations of over-inventory and under inventory with reference to their consequences. 10
  4. Discuss the challenges with reference to the use of ICTs in inventory management. What strategies would you apply to encounter these challenges. 10
  5. A manufacturer uses ₹ 10,000 worth of an item during the year. He has estimated the ordering cost as ₹ 26 per order and carrying costs as 12.5% of average inventory value. Find the optimal size, number of order per year, time period per order and total cost. 10
  6. Describe why industries allow shortages in inventory stocking. What are its advantages and disadvantages ? 10
  7. Discuss the inventory modeling with price discounts. Give the algorithm for finding the optimal order quantity under two price breaks with a sketch. 10

8. What is Forecasting ? Describe the various qualitative techniques of forecasting briefly. 10
9. Distinguish between Fixed period system (P System) and Fixed Quantity System (Q-System) with neat sketch and examples. 10
10. List out the functions and responsibilities of stores manager. Discuss his role in optimal utilization of materials. 10

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