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**MWR-002**

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

**Term-End Examination**

**June, 2026**

**MWR-002 : ADVANCED INVENTORY  
PLANNING AND CONTROL**

*Time : 3 Hours*

*Maximum Marks : 70*

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

(ii) All questions carry equal marks.

(iii) Use of scientific calculator is permitted.

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1. (a) Discuss the significance of materials management in any organization. 5
- (b) What are the challenges in Inventory Management ? Explain in brief. 5

2. (a) Discuss the functions of Material Requirement Planning (MRP). 5
- (b) Write the benefits and limitations of MRP II. 5
3. (a) Describe various policies for materials management in a steel company. 5
- (b) What is Scheduling ? State the objectives of Scheduling. 5
4. (a) Define Master Production Schedule. Discuss its objectives. 5
- (b) In an organization, there are five purchase requisitions (PRs). which are to be processed by the procurement team. The processing time for each purchase requisitions and due date is given in the following table : 5

| Purchase Requisitions (PRs) | Processing time (Days) | Due date (Days from now) |
|-----------------------------|------------------------|--------------------------|
| P <sub>1</sub>              | 10                     | 18                       |
| P <sub>2</sub>              | 8                      | 22                       |
| P <sub>3</sub>              | 5                      | 25                       |
| P <sub>4</sub>              | 11                     | 15                       |
| P <sub>5</sub>              | 6                      | 30                       |

Prepare a sequence of processing purchase requisitions under the following rules : 5

(i) SPT

(ii) EDD

5. (a) Discuss various Aggregate Planning strategies. 5
- (b) What is JIT ? Discuss barriers and benefits of JIT. 5
6. (a) With the help of neat diagram, illustrate supply chain management. 5
- (b) What is reverse logistics ? Discuss its significance. 5
7. (a) Define vendor management. Brief out the reasons for the requirement of vendor management. 5
- (b) Discuss the phases of ERP implementation. 5
8. (a) What is meant by value ? Discuss the different types of values in Customer perceptions. 5
- (b) Describe Function Analysis System Technique (FAST) diagram with the help of an example. 5

9. (a) What is waste management ? Discuss the challenges of waste management. 5
- (b) What is MUDA ? Briefly explain, concept of MUDA. Discuss the advantages of MUDA. 5
10. Write short notes on any *two* of following : 5+5
- (a) Integrated Materials Management
- (b) Bill of Material
- (c) Back ordering Policy
- (d) e-KANBAN System.

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