

**P. G. CERTIFICATE IN INVENTORY  
PLANNING AND WAREHOUSING  
SYSTEMS FOR ENGINEERS  
(PGCIPWS)**

**Term-End Examination**

**June, 2022**

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

*Time : 3 Hours*

*Maximum Marks : 70*

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**Note :** *Answer any seven questions. All questions carry equal marks. Assume missing data suitably.*

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1. Discuss the various types of inventory carried by a manufacturing organization. Explain also the usefulness of EOQ, order level and MRP to these types of inventories. 10
2. How are the foreign suppliers selected ? What are the precautions that must be taken while negotiating a contract with a foreign supplier ?

10

3. Explain the components and structure of comprehensive vendor rating system. 10
4. Discuss the important criteria that may be used to determine (i) possible source of supply and (ii) acceptable source of supply. 10
5. How does JIT differ from MRP II ? Briefly discuss the basic requirements and assumptions of JIT implementation. 10
6. Define work-in-process (WIP) inventory. Discuss various methods for controlling W-I-P inventory. 10
7. Define 'KAN BAN' system. Discuss its benefits in managing materials. 10
8. Explain the reason for the evolution of Manufacturing Resources Planning (MRP II) from material requirement planning. How does MRP II differ from MRP ? Explain the difference with the help of a flow diagram. 10

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9. Write short notes on any *two* of the following :

2×5=10

- (a) Push and Pull system
- (b) Bullwhip effect
- (c) Periodic replenishment
- (d) Supply chain management