

No. of Printed Pages : 4

MWR-002

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

Term-End Examination

June, 2025

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

Time : 3 Hours

Maximum Marks : 70

Note : *Attempt any **seven** questions. All questions carry equal marks. Use of scientific calculator is permitted.*

1. “Integrated Materials Management (IMM) is concerned with management functions supporting the complete cycle of material flow.” Discuss. 10

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2. Discuss the purchasing cycle for any material or component using flowchart. 10
3. (a) What do you understand by 'dependent' and 'independent' demand ? Describe using suitable example. 5
(b) What is the impact of the push-pull system in demand ? 5
4. (a) What do you understand by aggregate production and aggregate capacity planning ? 5
(b) Describe the level production and chase demand strategies for aggregate planning. 5
5. (a) What do you understand by master production schedule ? How is it linked with MRP-I ? 5
(b) Explain 'Bill of Materials' in MRP-I. 5
6. "JIT inventory management system is a means, not an end." Illustrate. 10

7. (a) What is the use of 'Kanban System' in any manufacturing firm ? 3
- (b) Usage of a work center is 300 parts per day, and a standard container holds 25 parts. It takes an average of 0.12 day for a container to complete a circuit from the time a Kanban card is received until the container is returned empty. Compute the number of Kanban cards (containers) needed if maximum allowable inefficiency in the system is 0.20. 7
8. (a) Explain the inbound and outbound perspectives of supply chain management. 5
- (b) Illustrate a simple supply chain model of any engineering/manufacturing firm. 5

9. (a) In today's era of environmental concern, green sourcing or procurement is being given due importance. How does it help in improving overall supply chain performance of a firm ? 5
- (b) List comparative advantage of single sourcing over multisourcing. 5
10. Write short notes on any *two* of the following : 5×2=10
- (a) Kaizen
- (b) Bull-whip effect
- (c) ERP

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