

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

Term-End Examination

December, 2022

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

Time : 3 hours

Maximum Marks : 70

Note : Attempt any **seven** questions in all. All questions carry equal marks. Assume missing data, if any, suitably.

1. Discuss the various roles of materials manager in the context of internal and external interfaces to materials management system. 10

2. "If you reduce work-in-process (WIP) inventory, then you expose many organizational bottlenecks." Comment on this statement. Also state the reasons for your agreement/disagreement. 10

3. What is the aim of spare parts inventory management ? In what way does it influence the different stages of the life cycle of spare parts. 10

4. Differentiate between dependent and independent demand inventory items. Dependent demand inventory items do not need a forecast. Why? 10

 5. “Improper supplier selection leads to receipt of inferior goods and services.” Comment on this. Explain what stages you would follow to make a proper selection. 10

 6. Explain the Material Requirement Planning (MRP) algorithm with the help of a flowchart. 10

 7. What are the different causes of bullwhip effect ? Discuss methods/ways to minimize bullwhip effect in a supply chain. 10

 8. What is a Just-in-time production system ? Discuss the basic differences between push and pull systems. 10

 9. Write short notes on any **two** of following : 5+5=10
 - (a) VMI
 - (b) Make-or-Buy Decisions
 - (c) Quick Response Strategy
 - (d) ERP
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