

TILAK MAHARASHTRA VIDYAPEETH, PUNE
BACHELOR OF BUSINESS ADMINISTRATION (B.B.A.)
B.B.A. IN LOGISTICS AND SUPPLY CHAIN MANAGEMENT
EXAMINATION: MAY - 2025
SEMESTER - IV

Sub.: Warehouse Control & Material Management (BBA23-LS 416)

Date : 24/05/2025

Total Marks : 60

Time: 10.00 am To 12.30 pm

Instructions: 1) All questions are compulsory.
2) Figures to the right indicate full marks.

Q. 1. Choose the most appropriate option. (05)

1. Which of the following is *not* an objective of material handling systems?
 - a) Reducing costs
 - b) Increasing accidents
 - c) Improving productivity
 - d) Better working conditions
2. Automatic Guided Vehicles (AGVs) are primarily used for:
 - a) Manual stacking
 - b) Transporting materials autonomously
 - c) Counting inventory
 - d) Supervising workers
3. Which of the following equipment is best suited for vertical lifting of heavy loads?
 - a) Conveyor
 - b) Truck
 - c) Crane
 - d) Forklift
4. The unit load concept involves:
 - a) Breaking down loads into small parts
 - b) Maximizing load variety
 - c) Handling loads as single manageable units
 - d) Mixing different types of materials
5. Just-in-time (JIT) scheduling aims to:
 - a) Increase inventory
 - b) Eliminate stockouts
 - c) Minimize inventory levels
 - d) Delay production

Q. 2. State True / False (05)

1. Conveyors are suitable for continuous material movement.
 - a) True
 - b) False
2. AS/RS systems are completely manual.
 - a) True
 - b) False
3. Layout design has no impact on warehousing efficiency.
 - a) True
 - b) False
4. IT systems can help in inventory planning and control.
 - a) True
 - b) False
5. Safety stock is used to buffer against demand variability.
 - a) True
 - b) False

Q. 3. Write Short notes on (Any Three) (15)

1. Objectives of Material Handling Systems
2. Advantages and Limitations of Cranes
3. Unit Load Concept
4. Role of IT in Warehouse Management
5. Just-in-Time Inventory System

Q. 4. Answer in detail (Any Two) (20)

1. Explain the various types of material handling equipment and their specific applications.
2. Describe AGVs and AS/RS with their role in automated warehouses.
3. Discuss how equipment is selected and integrated in a warehousing system with economic analysis.
4. Elaborate on advanced EOQ models and their application in inventory control.

Q. 5. Case study (15)

Scenario: A logistics company wants to modernize its warehouse operations using automation and improve inventory accuracy while reducing holding costs.

Questions:

1. What automated systems should the company consider implementing?
 2. How would EOQ and JIT models benefit this company?
 3. What layout and planning considerations must be addressed?
-