

INVENTORY MANAGEMENT
(378)
TUTOR MARKED ASSIGNMENT

- Note:**
- i) **All questions are compulsory. The marks allotted for each question are indicated against each question.**
 - ii) **Write your name, enrollment number, AI name, and subject on the top of the first page of the answer sheet.**

- 1. Answer any one of the following questions in about 40-60 words. 2**
- a) How does the implementation of RFID and voice-picking technology enhance the efficiency of inventory picking in warehouses? (See Lesson 13)
- OR
- b) What are the potential challenges companies may face when adopting automated guided vehicles (AGVs) for inventory management? (See Lesson 15)
- 2. Answer any one of the following questions in about 40-60 words. 2**
- a) Imagine a situation where inventory is not available in your shop. Discuss how you would manage inventory and ensure a steady supply. (See Lesson 1)
- OR
- b) Inventory management techniques are important for functioning of an organization. Support this statement with suitable measures to manage inventory. (See Lesson 7)
- 3. Answer any one of the following questions in about 40-60 words. 2**
- a) As the Operations Manager at a manufacturing company, you have been tasked with implementing a Just-in-Time (JIT) inventory management system to reduce inventory costs and improve production efficiency. Explain how you would design and implement a JIT system, including the strategies you would use to manage inventory, supply chain, and production processes. (JIT). (See Lesson 9)
- OR
- b) As the Logistics Manager at a leading e-commerce company, you are considering implementing a robotic warehouse system to improve efficiency, reduce labor costs, and enhance customer satisfaction. Discuss the role of robotic warehouses in achieving these objectives, including the benefits, challenges, and implementation strategies you would employ. (See Lesson 12)

4. Answer any one of the following questions in about 100-150 words.

4

- a) A manufacturing unit dealing with hazardous chemicals and electronic waste has reported frequent incidents of workplace injuries due to improper use of Personal Protective Equipment (PPE). As a safety officer, suggest a comprehensive strategy for selecting, maintaining, and ensuring the correct usage of PPE in the inventory. Discuss the impact of proper PPE management on workplace safety and efficiency.

(See Lesson 21)

OR

- b) In a warehouse storing perishable goods and heavy machinery, different types of Personal Protective Equipment (PPE) are required for workers handling inventory. Describe the key factors to consider when selecting PPE for different job roles. How can an inventory management system help track the availability, condition, and replenishment of PPE to ensure worker safety?

(See Lesson 21)

5. Answer any one of the following questions in about 100-150 words.

4

- a) Discuss the alternative systems for storage of loaded pallets.

(See Lesson 17)

OR

- b) Identify and describe the most common types of equipment available for pallet movement, and explain how you would select and implement the most suitable equipment for your warehouse operations.

(See Lesson 17)

6. Prepare any one of the following projects given below:

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- a) In a warehouse, workers frequently lift and transport heavy objects. Improper lifting techniques can lead to serious injuries, especially back strains. To ensure safety, proper techniques such as bending at the knees, keeping the back straight, and holding the load close to the body must be followed. Additionally, workers should avoid twisting while lifting and should use mechanical aids whenever necessary. Suppose you are responsible for training new employees on safe lifting practices. How would you demonstrate the correct lifting technique, and what precautions would you emphasize to prevent injuries?

(See Lesson 23)

OR

- b) In a manufacturing unit, a machine unexpectedly breaks down, causing delays in production. Upon investigation, it is found that routine maintenance was skipped due to a lack of a proper checklist. As a supervisor, how would you design an effective checklist to ensure regular equipment maintenance, and what steps would you take to implement it successfully to prevent future breakdowns?

(See Lesson 23)