



INDIAN INSTITUTE OF MATERIALS MANAGEMENT

Post Graduate Diploma in Logistics & SCM

Post Graduate Diploma in Materials Management - 2 years

JUN 2025

PAPER No. 13(enrolment code –PGMM, PGSM)

LOGISTICS AND WAREHOUSING MANAGEMENT

Date : 23.06.2025
Time : 10.00 a.m. to 1.00 p.m.

Max. Marks: 70
Duration : 3 Hrs.

Instructions:

1. Part A, contains 4 main questions (with 5 sub-questions) each question carries 1 mark - Total 20 marks
2. Part B answer any 3 questions out of 5 questions. Each question carries 10 marks - Total 30 marks
3. Part C is a case study. Read the case carefully and answer the questions - Total 20 marks

PART - A

(20X1= 20 Marks)

(Compulsory - Attempt all questions each question carries 1 mark)

Q.1 Select the right answer

[5 marks]

1. Inventory is one of the components of _____
(a) *Warehouse* (b) *Manufacturing* (c) *Logistics* (d) *All of these*
2. Maximization of revenue generation is one of the objectives of _____
a) *Sales management* (b) *Marketing department* (c) *Supply Chain Mgmt.* (d) *None of these*
3. _____ refers to activities pertaining to storage and distribution to the final customer
(a) *Outbound logistics* (b) *Warehousing* (c) *Reverse logistics* (d) *Whole sale agent*
4. Components of transportation are
(a) *Infrastructure* (b) *Vehicles* (c) *Policy* (d) *All of these*
5. Drive through rack is a kind of _____ used in warehouses
(a) *Mobile rack* (b) *Walk through rack* (c) *Rack with steps* (d) *Storage rack*

Q.2 Fill in the blanks

[5 marks]

1. In a _____ system each employee in the warehouse is assigned a zone for picking
2. Accessibility is one of the design factors for _____ design
3. Order picking is one of the activities that is carried out in a _____
4. _____ acts as centers of multimodal logistics systems
5. _____ are terminals situated near the seaports and connected through road and rail

Q.3 Mention True or False

[5 marks]

1. Container Freight Stations play an important role in the handling of LCL containers
2. 3PL ensures the delivery of products efficiently and on time
3. The huge initial investment required for pipeline transport increases the cost of transportation
4. One of the main advantages of containerization is the standard size of the containers
5. Container Freight Stations play an important role in the import and export process

Q.4 Match The following**[5 marks]**

COLUMN A		COLUMN B	
Sr. No.		Sr. No.	
1	Bill of lading	A	Reduce organization risks
2	Flexibility in goods movement	B	Material procurement
3	After-sales goods movement	C	Shipping line
4	Supply chain management	D	Reverse logistics
5	Inbound logistics	E	Road transport

PART - B**[Total 30 marks]****Answer any THREE out of the following five questions:**

Q5. (a) Identify and explain the factors that are considered while designing a warehouse? **[5 marks]**
 (b) Who are the participants involved in the international container shipping process? **[5 marks]**

Q6. (a) What are the benefits associated with container Freight Stations? **[5 marks]**
 (b) What are the services offered by dry ports. Identify the benefits associated with dry ports? **[5 marks]**

Q7. (a) What are the product movement activities performed in the warehouse operations? **[5 marks]**
 (b) Explain all the steps followed in the process of risk assessment in a warehouse. **[5 marks]**

Q8. (a) What are the various types of general purpose and special purpose containers? **[5 marks]**
 (b) Explain the factors that have to be considered while identifying warehouse location. **[5 marks]**

Q9. (a) What are the major reasons that are considered while deciding on warehouse outsourcing? **[5 marks]**
 (b) What are the rules to be followed for creating a successful outsourcing partnership? **[5 marks]**

PART - C**[Total: 20 Marks]****Q.10****CASE STUDY (Compulsory)**

M/s Movement Solutions Inc. (MSI) are in the business of transport logistics and have a good reputation with their customers. Some of its customers were expanding their operations and were on the lookout for logistics service providers. MSI were exploring the prospects of expanding their transport activities into warehousing. During the discussions with their prospective customers, two major activities were identified: one for product movement. The prospective customers preferred automated order picking over the manual method to overcome the likelihood of errors in manual picking. MSI took upon themselves to study the options available in automated picking to identify the one that will best suit their objective. In order to manage the warehouse operations effectively, it is important to consider all the relevant factors to design the warehouse. MSI understood the importance of material handling in the warehouse. Materials have to be handled at various stages in the operations of the warehouse, and each type of material handling equipment has to be selected carefully to fit into the operations smoothly. MSI decided to put up a warehouse facility after taking into account all the above factors and operate the warehouse for its customers.

Questions:

1. What types of product movements are required by the prospective customers **[5 marks]**
2. What were the types of automated picking that were examined by MSI? **[5 marks]**
3. Explain the factors that are relevant for the design of the warehouse. **[5 marks]**
4. What are the types of material handling equipment used in a warehouse? Explain each. **[5 marks]**