



INDIAN INSTITUTE OF MATERIALS MANAGEMENT

Post Graduate Diploma in Logistics & SCM Post Graduate Diploma in Materials Management

JUNE 2025

PAPER No. 14 (enrollment code – PMM , PSM,CMM, CSM)

LOGISTICS AND WAREHOUSING MANAGEMENT

Date :24.06.2025

Time : 10.00a.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. One of the logistics activities in a manufacturing organization is
(a) Packaging (b) Procurement (c) Goods receipt (d) All of these
2. The possible decision phases in supply chain management are
(a) Design (b) Plan (c) Operation (d) All of these
3. One of the reasons for the outsourcing of warehouse operations is
(a) Lack of space (b) Wasted activity time (c) Shared resources (d) High cost
4. When several product demands from orders are combined into one picking instruction it is
(a) Zone picking (b) Pallet picking (c) Automated picking (d) Batch picking
5. When inventory from multiple origins is combined and shipped in prespecified assortment it is
(a) Transshipment (b) Reshipment (c) Consolidation (d) Cross docking

Q.2 Fill in the blanks

[5 marks]

1. _____ entails every stage of the products' physical distribution process
2. Picking, Sorting, Package formation and consolidation are the stages in _____
3. Creation of value for customers is one of the primary goals of _____
4. _____ transport has gained tremendous advantage because of its reliability
5. _____ involves the use of more than one means of transport for the movement of goods

Q.3 Mention True or False

[5 marks]

1. Nature of a product has virtually no influence in the transportation of goods
2. A dock receipt is a document issued by the port authorities for having received the goods
3. One of the major disadvantages of using containers is the standard size
4. CFS is most advantageous when full container loads are handled for shipping
5. A Container Freight Station is also called as a dry port

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

COLUMN A		COLUMN B	
Sr. No.		Sr. No.	
1	Dry ports	A	Outsourcing
2	No long-term lease	B	Information transfer
3	Slips and trips	C	Expensive
4	Warehouse activity	D	Container yard
5	Air transport	E	Warehouse safety

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

- Q5.** (a) What are the five rules for a successful outsourcing partnership? Explain with a diagram **[5 marks]**
 (b) What are the functions of a container freight station? **[5 marks]**
- Q6.** (a) Explain the process of container booking with the container being stuffed in the factory **[5 marks]**
 (b) What are the services offered by dry ports and what are its advantages? **[5 marks]**
- Q7.** (a) Explain all the operations that form as part of warehouse operations **[5 marks]**
 (b) Warehousing helps the organization to deal with multiple issues. What are they? **[5 marks]**
- Q8.** (a) Identify and explain the warehouse design factors. **[5 marks]**
 (b) What are the four categories of material handling equipment used in a warehouse? **[5 marks]**
- Q9.** (a) Identify the main reasons why organization opt for outsourcing of warehouse operations **[5 marks]**
 (b) Identify the different methods of automated picking systems. Explain each of them. **[5 marks]**

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

M/s Storage Systems Limited (SSL) were small time transporters and had a small warehouse for the temporary storage of goods. Sensing the dramatic increase for 3 PL service providers M/s SSL decided to identify and enter this market. One of the main activities of a 3PL operator is the efficient operation of the warehouse. This needed a proper design for efficient operation. They identified a consultant to help them set-up the warehouse.

The first step identified by the consultant was to decide on the location of the warehouse and the costs associated with it. Once this exercise was completed, the major factor that will influence the warehouse operation is the product mix. The ease of operation and warehouse design is greatly influenced by the product mix. Additional factors that influence the design of the warehouse were studied in detail. Each of these factors are essential design factors to be considered for all warehouses irrespective of the type of material. these design factors are part of the activities carried out by the warehouse and hence influence the design of the warehouse. Additional infrastructure related to the material handling equipment is required for the smooth operation within the warehouse. Each category of material handling equipment has its own role to play in the warehouse.

Questions:**[Total 20 Marks]**

1. Identify the factors to be considered warehouse location and the associated costs? **[5 marks]**
2. What is the characteristic of the product mix that influences the warehouse design? **[5 marks]**
3. Explain about the design factors that are common for all warehouses **[5 marks]**
4. Identify and explain on the use of each type of equipment operated inside a warehouse **[5 marks]**