



INDIAN INSTITUTE OF MATERIALS MANAGEMENT

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

DEC 2025

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

LOGISTICS AND WAREHOUSING MANAGEMENT

Date : 22.12.2025
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. The primary aim of logistics management is to maintain _____ of materials in the supply chain
(a) Smooth flow (b) Low cost (c) Good quality (d) All of these
2. The flow of goods from the customer to the manufacturer is referred to as
(a) Reverse channel (b) Reverse logistics (c) Backward delivery (d) Reverse chain
3. One of the important objectives of Supply Chain Management is
(a) Manage suppliers (b) Manage transportation (c) Risk reduction (d) Manage customer
4. Management of the entire supply chain network is referred to as
(a) 2 PL (b) 3PL (c) 4 PL (d) None of these
5. Road transportation offers the greatest _____ among the various transportation methods
(a) Flexibility (b) Safest (c) Fastest (d) All of these

Q.2 Fill in the blanks

[5 marks]

1. _____ undertakes the task of safe delivery of the products from one point to another
2. Pipeline based transportation is used in the movement of _____
3. Standardization with the use of _____ is the main advantage in cargo movement
4. Container freight stations ensure the _____ between ports and distribution centres
5. _____ are terminals that are near and well connected with the sea port

Q.3 Mention True or False

[5 marks]

1. Dry ports are used to reduce the congestion in sea ports
2. Bonded warehouses are locations in which confiscated goods are stored by customs
3. Product mix is one of the main factors that determine the customer turnaround time
4. Positioning equipment is mainly used in the production floor to sort out production inventory
5. Pick-to-box is a form of automated picking system

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

COLUMN A		COLUMN B	
Sr. No.		Sr. No.	
1	Vitasek warehouse outsourcing model	A	Cross docking
2	Product movement activity	B	Space
3	Warehouse outsourcing	C	Reverse logistics
4	Warehouse design criteria	D	Confrontation to Collaboration
5	After sales logistics	E	Reduced capital investment

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

- Q5.** (a) Warehousing helps an organization in many ways. Identify the reasons for outsourcing. **[5 marks]**
 (b) Logistics helps in the smooth flow of materials. What are the objectives that help achieve this **[5 marks]**
- Q6.** (a) Logistics plays an important role in the supply chain management. What are these roles? **[5 marks]**
 (b) Explain briefly the manual and automated order picking system followed in order fulfilment. **[5 marks]**
- Q7.** (a) Company wants to decide on 2PL, 3PL or 4 PL. Compare these 3 to help in the decision. **[5 marks]**
 (b) Transportation is a key component of logistics. What are these factors in transportation? **[5 marks]**
- Q8.** (a) Explain the various types of containers used in the transportation of goods **[5 marks]**
 (b) Dry ports help in reducing port congestion by offering services. What are these services? **[5 marks]**
- Q9.** (a) Many documents are used in the transportation process. Explain the use the documents. **[5 marks]**
 (b) Logistics plays an important role for the organization. What are they? **[5 marks]**

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

M/s Logistics solutions is a transport operator. They operate a fleet of transport vehicles and its associated facilities. They have established a name for themselves with their efficiency and effective operations. They ensure that the key factors of transportation are properly taken care in the operations of the transportation fleet. M/s Logistics solution operate a small set of warehouses exclusively for catering to the transport operations. With the announcement of the National Logistics Policy (NPL), M/s Logistics solutions have decided to expand their operations especially in operation of warehouses. The new set of warehouses required the performance of certain roles and responsibilities by the warehouse manager for its efficient operation. He would be responsible for identifying the warehouse locations and equipping it with the necessary equipment for storage and material movement considering all the factors for efficient operation of the warehouse. The answers to these questions will help M/s Logistics solutions to set up their warehousing operations successfully.

Questions:**[Total 20 Marks]**

- What are the key factors for transportation taken care in the operation of the transportation fleet. Name them and explain briefly each of them **[5 marks]**
- What are the roles and responsibilities that have to be performed by the warehouse manager to ensure smooth and efficient operation of the warehouses? **[5 marks]**
- What are the design criteria that have to be considered in the by the warehouse manager for the efficient and effective operation of the warehouse? **[5 marks]**
- What are the different types of equipment that are required for the efficient operation of the warehouse including the handling and storage of the materials? **[5 marks]**