



INDIAN INSTITUTE OF MATERIALS MANAGEMENT
Post Graduate Diploma in Materials Management
Graduate Diploma in Materials Management
PAPER No. 11

June 2018

LOGISTICS MANAGEMENT

Date : 15.06.2018

Max. Marks :100

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

Duration : 3 Hrs.

Instructions:

1. **PART A** is compulsory. Answer all questions.

Total marks = 32

2. From **PART B**, answer any three questions. Each question carries 16 marks .

Total marks = 48

3. **PART C** is **Case Study** and is compulsory. Answer the questions reflecting through understanding of the case.

Total marks = 20

4. Please read instructions on the answer sheet carefully.

PART A

(32x1 = 32 marks)

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

Q1. State TRUE or FALSE :-

8 Marks

- a) The word 'Logistics' is derived from French word 'Loger', which means art of war pertaining to movement and supply of armies.
- b) Capacity Buffers caters to manage unexpected surges of planned demand and does not take into account the unplanned demands.
- c) Transport transaction is influenced by four parties – consignor, consignee, carrier and public.
- d) The complete outsourcing of the logistics function including procurement of service providers is called as Fourth Party Logistics Provider.
- e) Returned goods cannot be refurbished and re-sold.
- f) As part of government initiatives, 100% FD is allowed for ports, Greenfield, Airports and roads.
- g) Fork Lift Trucks require less turning space than required by other types of material handling equipments.
- h) In the concept of live racks, rear loading facilitates last-in-first-out management of inventory.

Q 2. Write full form of following abbreviations :-

8 Marks

- | | | | |
|-----------|---------|----------|-----------|
| i) MRP II | ii) SRM | iii) JIT | iv) RFDC |
| v) AGVS | vi) TEU | vii) UPS | viii) TMS |

Q 3. Fill in the blanks :-**8 Marks**

- a) Logistics comprise of _____ + Materials Management + Physical Distribution.
- b) Under _____ system, materials are stored in specific location, within controlled areas.
- c) _____ logistic function is typically a significant source of lost revenue, excess cost and customer dissatisfaction.
- d) The stock of inventory taken when the stock level of an item is the least is known as _____ inventory.
- e) Under channel flow – “ Supplier \longleftrightarrow Manufacturer \longleftrightarrow Intermediaries \longleftrightarrow Consumers “ – represent _____ Flow.
- f) There are no intermediaries in _____ channels.
- g) _____ means carriage of goods by road, rail, air, inland waterways or sea.
- h) An activity to change type of conveyance or to sort material intended for different locations or to combine materials from different origin is known as _____.

Q 4. Match Column A with correct responses from Column B :-**8 Marks**

Column A		Column B	
1.	Auto Identification System	A	Vehicle space utilization
2.	Retail stores	B	Water transport
3.	Automatic identification method	C	Humanlike machine
4.	Towline	D	Point of Sale
5.	Robotics	E	RFID
6.	Stowability	F	Continuous movement
7.	Refilling	G	Bar Codes
8.	Canoe	H	Metal cylinders

PART - B

Write any three (3) of the following questions – 16 marks each

(48 Marks)

- Q. 5** Explain in detail the objectives of Logistics.
- Q. 6** Explain in detail the various concepts of Topology of supply chain.
- Q. 7** Explain the principles of material handling in detail what are overhead cranes, hoist and conveying equipments ? Draw neat diagrams wherever necessary.
- Q. 8** Explain in details various types of transportation.
- Q. 9** Write Short Notes (Any Four) – (4 x 4 = 16 Marks)
- (a) Important trends in logistics.
 - (b) Warehouse planning and cost reduction.
 - (c) Transport Economies.
 - (d) Allocation of physical distribution costs to products and customers.
 - (e) RFID and its applications.
 - (f) Any two initiatives taken by the Indian government to boost the logistics industry.

PART – C

20 Marks.

Q. 10. CASE STUDY (compulsory)

M/s XYZ Ltd., is a Pharmaceutical Co., into the manufacturing of drugs for human consumption. At present they have two manufacturing plants based out of Baddi in Himachal Pradesh and the other at Vapi in Gujarat. They have their regional Sales office in most of the Tier 1 and Tier 2 cities of India wherein the finished goods have to be transported. In certain locations there are also of Tier 1, there is also an C&F agency appointed to cater to the requirements of Tier 3 locations.

You have been appointed as a Logistics Head (Pan India) and based out of the Corporate office located at Mumbai to ensure that supplies to all the locations are catered for without any stock out issues.

In view of the above, you are requested to respond to the below mentioned queries:

Questions : (5 x 4 = 20 Marks)

- (a) Prepare an Organogram of your deptt along with the team members at various locations;
- (b) Explain the job profile of yours as well as your team members in some major clusters catering to some of the important locations;
- (c) How are you going to ensure the distribution network across the country through out its length and breadth with least cost;
- (d) What model are you going to apply to ensure availability of stocks on shortest possible time;
- (e) Define your Key Result Area