



INDIAN INSTITUTE OF MATERIALS MANAGEMENT

Post Graduate Diploma in Materials Management

Graduate Diploma in Materials Management

PAPER No. 11

LOGISTICS & SUPPLY CHAIN MANAGEMENT

June 2011

Date : 17.06.2011

Max. Marks :100

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

Duration : 3 Hrs.

Instructions

1. **PART A** is compulsory. Answer all questions.
  2. From **PART B**, answer any three questions. Each question carries 16 marks.
  3. **PART C** is **Case Study** and is compulsory. Answer the questions reflecting through understanding of the case.
  4. Please read instructions on the answer sheet carefully.
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PART A

**Q1. State True or False**

**(8)**

1. Voyage Charter refers to shipment by air.
2. Packaging is not that important in logistics management.
3. Heuristic algorithm provides optimal solution.
4. In JIT, close coordination between buyer & seller not required.
5. Formulating strategy in logistics is done in isolation.
6. Supply Chain mapping is done to identify value added activities.
7. Product Design does not play any role in SCM
8. Bar code is used for identifying bar.

**Q2. Write Full Forms**

**(8)**

- (1) AQL
- (2) AITS
- (3) RFID
- (4) ICD
- (5) VLCC
- (6) DWT
- (7) GPS
- (8) LTL

**Q3. Match the Following****(8)**

<b>A</b>	Simulation	<b>1</b>	Replicate Functioning of logistics network
<b>B</b>	Wal-Mart	<b>2</b>	Cross Docking
<b>C</b>	Nodal Network	<b>3</b>	Multiple Transshipment, pick up
<b>D</b>	Exact Algorithm	<b>4</b>	Optimal Solution
<b>E</b>	Contracts	<b>5</b>	Agreements
<b>F</b>	Agreements	<b>6</b>	Could be Invalid Contracts
<b>G</b>	Pallets	<b>7</b>	Unitisation
<b>H</b>	Heuristics Algorithm	<b>8</b>	No Optimal Solution

**Q4. Write Small Note (Any Four)****(8)**

- (1) Cross Docking
- (2) Inland Water
- (3) VMI
- (4) Artificial Intelligence
- (5) Robots
- (6) Lean Supply Chain

**PART B****Write any THREE out of Following 5 Questions**

- Q5.** What is Supply Chain Mapping? How it helps in the success of organisation? **(16)**
- Q6.** Write Short Note (Any Four) **(16)**
- (1) Reverse Logistics
  - (2) Just In Time
  - (3) Third Party Logistics
  - (4) E – Trading
  - (5) Conveyors
  - (6) EOQ
- Q7.** Discuss various objectives of Logistical Packaging. **(16)**
- Q8.** Explain SCM term. What is its importance today? **(16)**
- Q9.** What is “Selective Control Techniques” in Inventory? Describe each in brief. **(16)**

PART C – Case Study (Compulsory)

**Q10.**

**(20)**

The data of 'ABC manufacturing is given:

- (1) Annual Demand – 250,000 Nos.
- (2) Price/Unit – Rs. 1
- (3) Demand – 4810 with standard deviation 400 per week
- (4) Service Level @ 95% -  $K = 1.64$
- (5) Normal Lead Time – 6 weeks
- (6) Maximum Lead Time – 10 weeks
- (7) Probability of 10 weeks – 0.25
- (8) Ordering Cost – Rs. 60/order
- (9) Inventory Carrying Charge – 30%

**Calculate**

- a) EOQ
- b) Safety Stock
- c) ROL For Fixed Quantity System
- d) Maximum Level of Stocks

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