



**CII Institute of Logistics**  
PGDSCM & Certificate Programs  
Semester-end Examination – June 2009

**Transportation and Distribution Management**

Time: Three Hours

Marks: 100

Part A

Answer all questions (20 x 1 = 20 Marks)

- 1) A *NODE* refers to:
  - a) A form of Transportation
  - b) Points to and from which shipments are made
  - c) A type of packaging irregularity
- 2) An important component of effective Fleet management is:
  - a) Long hauls
  - b) Shorter distances
  - c) Maintenance of Transit time.
- 3) All the following are critical success factors in road transportation, EXCEPT----
  - a) Error free delivery
  - b) Number of trucks
  - c) Accurate documentation
- 4) Despatching efficiency of a road transport vehicle is measured by:
  - a) Turnaround time per vehicle
  - b) Loading value per person
  - c) Loading vehicle per person
- 5) Which of the following is NOT a Packaging function:
  - a) Product-Mix consideration
  - b) Communication
  - c) Damage protection
- 6) A Transportation strategy to be successful should recognize :
  - a) Floor space utilization
  - b) Brain wave analysis
  - c) Measuring / Benchmarking
- 7) Multi-legging is a term used in:
  - a) Warehouse management
  - b) Distribution management
  - c) Transportation management
- 8) In a Hub and Spoke network, the role of the Hub is:
  - a) Ordering points
  - b) Delivery points
  - c) Storage points
- 9) Major benefit of Containerization is:
  - a) Reduced manpower costs
  - b) Reduced inventory costs
  - c) Reduced shipping cost
- 10) Port operations include all of the following except:
  - a) Cargo handling
  - b) Security
  - c) Surveying
- 11) Air Transportation has low transit time and low cost TRUE/FALSE.
- 12) In a *Hub&Spoke* system the sequence followed is – pick up,consolidate,sort,deliver TRUE/FALSE.
- 13) CSI refers to Container Security Initiative TRUE/FALSE.
- 14) The critical role of integrators in a Logistics chain is to provide information support TRUE/FALSE.
- 15) The major emphasis of Rail transportation is to reduce idle time TRUE/FALSE.
- 16) Perishable items to be issued from warehouse on FIFO method TRUE/FALSE.
- 17) IATA is associated with Multimodal transport TRUE/FALSE.
- 18) The activities in a Transit Warehouse are *loading and unloading* TRUE/FALSE.
- 19) *Hoover's* model is practiced in Warehousing TRUE/FALSE.
- 20) Land bridge is a service in which foreign cargo crosses a country enroute to another country TRUE/FALSE.

**Part B**

Answer any FOUR

Marks: 4 x 10 =40

- 1) Explain briefly the key factors influencing Distribution network decisions?
- 2) Write short notes on any 2 of the following:-
  - (a) Intermodal Services
  - (b) Green Packaging
  - (c) Lighters aboard a Ship (LASH)
  - (d) Pipeline movement
- 3) What are the different Transportation security initiatives and the role of technology?
- 4) What are the different Transportation security initiatives and the role of technology?
- 5) What are the key features, advantages and disadvantages of *Last Mile Delivery from Distributor storage facility* model?
- 6) What is meant by Distribution Network? Briefly explain the 4 interrelationships?
- 7) Briefly explain the 6 critical factors that drive Transportation costs?

**Part C**

Answer all FOUR

Marks: 4 x 10 =40

M/s Eastern Electric (EE) is a major appliance manufacturer with a large plant in Chicago area. EE purchases all the motors for its appliances from West view motors, located near Dallas. EE currently purchases 120,000 motors each year from West view at a price of \$120 per motor. Demand has been relatively constant for several years and is expected to stay that way. Each motor averages about 10 pounds in weight, and EE has traditionally purchased lots of 3,000 motors. West view ships each order within a day of receiving it. At its assembly plant, EE carries a safety inventory equal to 50% of the average demand for motors during the delivery lead time. EE's annual cost of holding inventory is 25%. Shipments by truck have a transit time of 3 days whereas by train it is 5 days.

The Plant Manager at EE has received 3 proposals for transportation as follows:-

<i>Carrier</i>	<i>Range of Qty shipped(cwt)</i>	<i>Shipping cost(\$/cwt)</i>
Marigold Transport	200+	6.50
Vesuvius Trucking	100+	7.50
Golden Freightways	50 - 150	8.00

1cwt = 100 pounds

- 1) Which Transporter will the Plant Manager choose?

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