

1

Q.P. Code :- 64962

**LOGISTICS AND SUPPLY CHAIN MANAGEMENT**

Q.1 A) Choose Correct Alternative. (Attempt any 8 questions)

(8)

1. ROLL ON ROLL OFF
2. Inbound
3. Transportation
4. Lead time
5. MBC
6. Cardboard
7. Warehousing
8. Waterways
9. Buffer stock
10. Packaging

Q.1 B) Match the right and closely related answer from Column A with the terms given in Column B ( Attempt Any 7 questions )

(7)

Column A	Column B
1. Fishy back	a. Combination of water & road transport
2. Hoist	b. Move material horizontally & vertically
3. Supply chain management	c. Broader concept
4. Warehouse	d. Stockpiling
5. Just in time	e. Inventory management
6. Total cost approach	f. Balance sheet
7. Transportation network option	g. Direct shipment with milk run
8. MRP	h. Guided by master production schedule
9. Packaging	i. Communication
10. Conveyor	j. Fixed point movement

Q.4A) The annual demand for an item is 5000 units. The unit cost is Rs 5 and inventory carrying rate is 30% per annum. If the cost of one procurement is Rs150. Find EOQ. (8)

Solution

Annual demand=5000

Cost per unit =5

Cost of procurement=150

Inventory carrying cost=.30

$$\begin{aligned} \text{EOQ} &= \sqrt{2AC_0/C_i} \\ &= \sqrt{2 \times 5000 \times 150 / 5 \times .30} \\ &= \sqrt{1000000} \\ &= 1000 \text{ units.} \end{aligned}$$

Q.4C) Daily consumption of a Raw material in the production process is 200 units. Lead time for delivery is 6 days. Company's keeps a safety stock of 3 days consumption. Calculate re order level.

Solution

2

Lead time consumption

=Consumption rate x lead time

=200x6

=1200

Safety stock =3 days consumption

=3x200

=600

Re order level=1200+600=1800