Time: 3 Hours   **Total Marks: 80**

Note
I Question No. 1 is **Compulsory**
II Attempt any three out of remaining five
III Elaborate each answer with the help of an **example**

Question No.		Marks
Q1 a)	Explain the Supply chain performance measuring SCOR model with neat diagram	**10**
Q 1 b)	What is definition of supply chain management? Explain with neat block diagram. And What is significance of supply chain management in manufacturing industries?	**10**
Q 2 a)	Forecasting roles in supply chain management and forecasting methods	**10**
Q 2 b)	Explain Aggregate planning in supply chain management	**10**
Q3 a)	Explain performance measurement of Supply chain Management model (Supply Chain Operation Reference) Model	**10**
Q3 b)	What is a role of warehouse in supply chain management? What are the types of ware house in supply chain? What are the functions of warehousing?	
Q4 a)	List out Types of purchase procedures and policies and Explain bidding policy and standard purchase order terms and conditions.	**10**
Q4 b))	Explain different issues of supply chain management in FMCG Companies	**10**
Q5 a)	Design of supply chain network channels and distribution modes and list out the supply chain factors consider facility location, capacity allocation, transportation facility in the network design.	**10**
Q5 (b)	An item is used at a uniform rate of 50,000 units per year. No shortage is allowed and delivery is at an infinite rate. The ordering, receiving and hauling cost is Rs. 13 per order, while inspection cost is Rs. 12 per order. Interest costs Rs. 0.056 and deterioration and obsolescence cost Rs. 0.004 respectively per year for each item actually held in inventory plus Rs. 0.02 per year per unit based on the maximum number of units in inventory. Calculate the EOQ. If lead time is 20 days, find re-order level.	**10**
Q6	Answer any Four questions	**20**

        a) Explain role of transportation in supply chain and Measure performance of transportation in supply chain management?
        b) Vendor Managed Inventory
        c) Reverse logistics management with detail block diagram
        d) Green Supply Chain Management
        e) Customer Order Decoupling Point (CODP)
        f) Third Party Logistics

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