

Registration no:

Total Number of Pages: 01

M.TECH
IMPC202

Second Semester Examination – 2013

SUPPLY CHAIN MANAGEMENT

Time: 3 Hours

Max marks: 70

Answer Question No.1 which is compulsory and any five from the rest.

The figures in the right hand margin indicate marks.

1. Answer in brief [2.5X8]
- Define Supply Chain Management.
 - List the two important indicators of supply chain performance.
 - List the drivers of Supply Chain performance.
 - What do you mean by value chain in Supply Chain Management?
 - What is Reverse logistics?
 - What are different measures of forecast error?
 - List the factors that should be considered for determining level of safety stock.
 - Differentiate between “All Unit Quantity Discount” and “Marginal Unit Quantity Discount”.
- Q2.a) Explain the Cycle view of Supply Chain process. [5]
b) Distinguish between chase and level strategy of aggregate planning. [5]
- Q3.a) List various drivers of supply chain. Explain the role of Information as a driver for achieving supply chain performance. [5]
b) List various challenges that are faced by organizations for achieving the performance of supply chain. [5]
- Q4. List various factors that should be considered while designing a distribution network. Describe any two types of distribution network. [10]
- Q5. a) Distinguish between Continuous Review policy and Periodic Review policy for inventory control. [5]
b) Price of certain component is Rs1000/_ per unit. If number of quantity ordered is 100 or more then 5% discount is offered by supplier on total quantity. The inventory holding cost is estimated to be 25%. Procurement cost is estimated to be Rs.2000 per order. If annual consumption of component is 300 units, determine economic quantity. [5]
- Q6.a) Explain Level, Trend and Seasonal factors in Time Series Forecasting method. [5]
b) Actual demands of product for six periods are: 205, 245, 208, 256, 219, 265 respectively. Forecast the demand for seventh period using Moving Average Method. [5]
- Q7. a) Explain the importance of coordination for performance of supply chain. What are various possible obstacles to coordination in supply chain? [5]
b) Explain the role of Information Technology in Supply Chain Management. [5]
- Q8. Write short notes on any TWO. [5+5]
- Bullwhip Effect
 - Multi-Echelon Inventory Model
 - Lean Manufacturing