

[3 Hours]

[Maximum Marks: 80]

- Question No.1 is compulsory and Answer 3 Questions remaining 5 Questions.
- Assume suitable data wherever necessary
- Diagram and sketches explanations are right to reserve full marks

- Q1 (i) What is importance of supply chain management? Explain Objectives of supply chain management in process industries? 10
- (ii) List out supply chain management functions, quantification of functions performance and how to enhance the supply chain management functions performance 10
- Q2 (i) Explain with case study Network design in supply chain considering roles, factors, models for facilities location and capacity allocation. 10
- (ii) Explain role of transportation in supply chain management and Measure performance of transportation in supply chain management? 10
- Q3 (i) Classification of materials in software and hardware IT industries in the context of Material management. 10
- (ii) Design a warehouse infrastructure and facilities are required to preserve agriculture crops storing facility in business 10
- Q4 (i) Explain Vendor Managed Inventory with case study [VMI] 10
- (ii) List out Opporunities in SCM and explain briefly each opporunity? 10
- Q5 (i) Discuss the relationship between service level, uncertainty, safety stock and order quantity. How can trade-offs between these elements be made? 10
- (ii) Explain push; pull systems and boundary of push pull systems in supply chain management? 10
- Q6 Explain the following concepts in Supply chain Management (Any Four) 4 x 5 =20
- (i) Lean six sigma systems
- (ii) Sustainable supply chain Management
- (iii) Reverse logistics
- (iv) 3 Party logistics system
- (v) Customer Order Decoupling Point CODP