

[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) Explain push; pull systems and boundary of push pull systems in supply chain management? **10**
- (ii) List out supply chain management functions, performance factors of functions and how to enhance the supply chain management functions performance **10**
- Q2** (i) What is importance of supply chain management? Explain Objectives of supply chain management in manufacturing industries? **10**
- (ii) What is the material management? Classify the materials in Pharmaceuticals Manufacturing industries. **10**
- Q3** (i) Design of supply chain network [SCN] channels and distribution modes and list out the supply chain factors consider facility location, capacity allocation, transportation facility in the network design **10**
- (ii) Explain role of transportation in supply chain management and Measure performance of transportation in supply chain management? **10**
- Q4** (i) Explain Vendor Managed Inventory with case study [VMI] **10**
- (ii) Discuss the relationship between service level, uncertainty, safety stock and order quantity. How can trade-offs between these elements be made? **10**
- Q5** (i) Explain functions of Ware house management systems **10**
- (ii) List out Opportunities in SCM and explain briefly each opportunity? **10**
- Q6** Explain the following concepts in Supply chain Management **4 x 5 =20**  
**(Any Four)**
- (i) RFID systems
- (ii) Implementation of six sigma in supply chain magement benefits
- (iii) Fourth Party Logistics 4PL
- (iv) Micro and Macro Dimensions of Logistics systems
- (v) Green Supply chain management