

[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 Opportunities in SCM and explain briefly each opportunity?	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	