

U.S.N.								
--------	--	--	--	--	--	--	--	--

B.M.S. College of Engineering, Bengaluru-560019

Autonomous Institute Affiliated to VTU

January / February 2025 Semester End Main Examinations

Programme: B.E.

Semester: VII

Branch: Industrial Engineering and Management

Duration: 3 hrs.

Course Code: 22IM7PCSCR

Max Marks: 100

Course: Supply Chain Management and ERP

Instructions: 1. Answer any FIVE full questions, choosing one full question from each unit.
2. Missing data, if any, may be suitably assumed.

			UNIT - I		CO	PO	Marks
Important Note: Completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages. Revealing of identification, appeal to evaluator will be treated as malpractice.	1	a)	With a neat diagram, explain the supply chain process cycles.	CO1	PO1	10	
		b)	Illustrate the macro processes that are included in a supply chain.	CO1	PO1	10	
	OR						
	2	a)	How does a company achieve strategic fit between its supply chain strategy and its competitive strategy? Explain. Also sketch the zone of strategic fit.	CO2	PO2	10	
		b)	Analyze the impact of Supply chain drivers on the responsiveness and efficiency of the supply chain.	CO2	PO2	10	
	UNIT - II						
	3	a)	With a neat graph, discuss the relationship between desired response time and number of facilities.	CO1	PO1	08	
		b)	Analyze the Manufacturer Storage with Direct Shipping type of distribution network.	CO2	PO2	08	
		c)	Tabulate the performance characteristics of in-transit merge.	CO2	PO2	04	
	OR						
	4	a)	Provide the suitable framework for network design decisions. Briefly explain the same.	CO2	PO2	12	
		b)	Illustrate the evaluation of network design decisions using decision tree.	CO2	PO2	08	
	UNIT - III						
	5	a)	Compare and contrast P and q-systems of inventory management.	CO3	PO2	05	
		b)	An enterprise requires 1000 units per month. The ordering cost is estimated to be Rs 50 per order. In addition to Rs 1, the carrying costs are 5% per unit of average inventory per year. The purchase price is Rs 20 per unit. Find the economic lot size to be ordered and the total minimum cost.	CO3	PO2	05	
		c)	Compare and contrast VED and FSND analysis of inventory.	CO3	PO2	10	
