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

Autonomous Institute Affiliated to VTU

June 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 & ERP

Instructions: 1 Answer any five questions choosing at least one full question from each unit.
2 Draw Block diagrams wherever necessary

			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)	What is Supply Chain? Explain with an example. Give the Derived Objectives of the Supply Chain.			<i>CO1</i>	<i>PO1</i>	14
		b)	“ Supply Chain Synchronicity creates a surplus “, Explain this notion using Walmart's supply chain			<i>CO2</i>	<i>PO2</i>	06
	OR							
	2	a)	Consider the supply chain involved when a customer orders a book from Amazon. Identify the push/pull boundary and two processes each in the push and pull phases.			<i>CO1</i>	<i>PO1</i>	10
		b)	Illustrate the various obstacles in achieving the strategic fit			<i>CO1</i>	<i>PO1</i>	10
	UNIT - II							
	3	a)	Elaborate on the various Factors influencing Distribution Network design considering the customer value in mind			<i>CO2</i>	<i>PO2</i>	10
		b)	Explain in detail the Distributor storage with last-mile delivery			<i>CO2</i>	<i>PO2</i>	10
	OR							
	4	a)	Is chaining a key factor in dealing with a variety of risks and uncertainties Explain the notation with a suitable example.			<i>CO2</i>	<i>PO2</i>	10
		b)	List and explain with lucid points the various risks associated with Network design			<i>CO2</i>	<i>PO2</i>	10
UNIT-III								
	5	a)	Explain ABC FNSD classification of inventory.			<i>CO2</i>	<i>PO2</i>	10
		b)	A major equipment company estimates its carrying cost at 15% and its ordering cost at Rs 9 per order. The estimated annual requirement is 48,000 units at a price of Rs 4 per unit.			<i>CO2</i>	<i>PO2</i>	10

		Required:			
		1. What is the most economical number of units to order? 2. How many orders should be placed in a year? 3. How often should an order be placed?			
		OR			
6	a)	Explain with a lucid example the tailored network option in supply chain management	CO3	PO3	10
	b)	Explain the method for distributing products directly without considering warehousing in a typical supply chain	CO3	PO3	10
		UNIT-IV			
7	a)	How did ERP system originate, explain its relevance along with the Industrial engineering progress	CO4	PO5	10
	b)	What could be the reason for ERP implementations in India Explain briefly	CO4	PO5	10
		OR			
8	a)	What is a Business Model, Why is it important for an Industrial engineer	CO4	PO5	10
	b)	Illustrate and explain the features of ERP for Small Business in India Features	CO4	PO5	10
		UNIT-V			
9	a)	Illustrate the five key activities carried out by the manager in the SCM macro process	CO5	PO3	10
	b)	What are the various types of information required for an Effective LRM	CO5	PO3	10
		OR			
10	a)	Explain the hyper ledger concept used in block chain to facilitate SCM	CO5	PO3	10
	b)	Write a note on E-markets and Internet Auctions	CO5	PO3	10
