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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

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.			<b>UNIT - I</b>	<b>CO</b>	<b>PO</b>	<b>Marks</b>
	1	a)	What is Supply Chain? Explain with an example. Give the Derived Objectives of the Supply Chain.	CO1	PO1	14
		b)	“ Supply Chain Synchronicity creates a surplus “, Explain this notion using Walmart's supply chain	CO2	PO2	06
			<b>OR</b>			
	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.	CO1	PO1	10
		b)	Illustrate the various obstacles in achieving the strategic fit	CO1	PO1	10
			<b>UNIT - II</b>			
	3	a)	Elaborate on the various Factors influencing Distribution Network design considering the customer value in mind	CO2	PO2	10
		b)	Explain in detail the Distributor storage with last-mile delivery	CO2	PO2	10
			<b>OR</b>			
	4	a)	Is chaining a key factor in dealing with a variety of risks and uncertainties Explain the notation with a suitable example.	CO2	PO2	10
		b)	List and explain with lucid points the various risks associated with Network design	CO2	PO2	10
			<b>UNIT-III</b>			
	5	a)	Explain ABC  FNSD classification of inventory.	CO2	PO2	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.	CO2	PO2	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?			
		<b>OR</b>			
6	a)	Explain with a lucid example the tailored network option in supply chain management	CO3	PO3	<b>10</b>
	b)	Explain the method for distributing products directly without considering warehousing in a typical supply chain	CO3	PO3	<b>10</b>
		<b>UNIT-IV</b>			
7	a)	How did ERP system originate, explain its relevance along with the Industrial engineering progress	CO4	PO5	<b>10</b>
	b)	What could be the reason for ERP implementations in India Explain briefly	CO4	PO5	<b>10</b>
		<b>OR</b>			
8	a)	What is a Business Model, Why is it important for an Industrial engineer	CO4	PO5	<b>10</b>
	b)	Illustrate and explain the features of ERP for Small Business in India Features	CO4	PO5	<b>10</b>
		<b>UNIT-V</b>			
9	a)	Illustrate the five key activities carried out by the manager in the SCM macro process	CO5	PO3	<b>10</b>
	b)	What are the various types of information required for an Effective LRM	CO5	PO3	<b>10</b>
		<b>OR</b>			
10	a)	Explain the hyper ledger concept used in block chain to facilitate SCM	CO5	PO3	<b>10</b>
	b)	Write a note on E-markets and Internet Auctions	CO5	PO3	<b>10</b>

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