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

Autonomous Institute Affiliated to VTU

July 2023 Semester End Main Examinations

Programme: B.E.

Branch: Industrial Engineering and Management

Course Code: 22IM6DCSCM

Course: Supply Chain and Logistics Management

Semester: VI

Duration: 3 hrs.

Max Marks: 100

Date: 14.07.2023

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
1	a)	Discuss Push/Pull process views of a supply chain	<i>CO1</i>	-	10
	b)	Discuss how strategic fit is achieved in a supply chain.	<i>CO1</i>	-	10
		UNIT - II			
2	a)	Explain the factors influencing distribution network design	<i>CO2</i>	<i>PO1</i>	10
	b)	Explain the design options available for distribution network.	<i>CO2</i>	<i>PO1</i>	10
		UNIT - III			
3	a)	Define Inventory. Give the classifications of Inventory.	<i>CO3</i>	<i>PO1</i>	10
	b)	Illustrate the concept of ABC classification. Brief on VED and FSN.	<i>CO3</i>	<i>PO1</i>	10
		OR			
4	a)	A company uses 2500 units of material per month. Cost of placing an order is Rs 150. The cost per unit is Rs 20. The re-order period is 4 to 8 weeks. The minimum consumption of raw material is 100 units whereas the average consumption is 275 units. The carrying cost of inventory is 20% per annum. Calculate Re-order quantity and re-order level.	<i>CO3</i>	<i>PO2</i>	10
	b)	Explain the concept of trade promotion-Short term discounting in a supply chain	<i>CO3</i>	<i>PO1</i>	10
		UNIT - IV			
5	a)	Discuss the modes of transportation and their performance characteristics.	<i>CO1</i>	-	10
	b)	Explain Tailored Transportation in a supply chain.	<i>CO2</i>	<i>PO1</i>	10
		OR			

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.

	6	a)	Explain the role of sourcing and Design collaboration.	<i>CO2</i>	<i>PO1</i>	10
		b)	Discuss the process of supplier scoring and assessment.	<i>CO2</i>	<i>PO1</i>	10
UNIT - V						
	7	a)	Discuss lean and agile supply chains.	<i>CO5</i>	<i>PO1</i>	10
		b)	Explain with a neat sketch closed loop supply chain, also list its applications.	<i>CO5</i>	<i>PO1</i>	10

B.M.S.C.E. - EVEN SEM 2022-23