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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.

<b>Important Note:</b> 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)	Discuss Push/Pull process views of a supply chain	CO1	-	10
		b)	Discuss how strategic fit is achieved in a supply chain.	CO1	-	10
			<b>UNIT - II</b>			
	2	a)	Explain the factors influencing distribution network design	CO2	PO1	10
		b)	Explain the design options available for distribution network.	CO2	PO1	10
			<b>UNIT - III</b>			
	3	a)	Define Inventory. Give the classifications of Inventory.	CO3	PO1	10
		b)	Illustrate the concept of ABC classification. Brief on VED and FSN.	CO3	PO1	10
			<b>OR</b>			
	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.	CO3	PO2	10
		b)	Explain the concept of trade promotion-Short term discounting in a supply chain	CO3	PO1	10
			<b>UNIT - IV</b>			
	5	a)	Discuss the modes of transportation and their performance characteristics.	CO1	-	10
		b)	Explain Tailored Transportation in a supply chain.	CO2	PO1	10
			<b>OR</b>			

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

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