

	U.S.N								
P.E.S. College of Engineering, Mandya - 571 401 (An Autonomous Institution affiliated to VTU, Belagavi) Seventh Semester, B.E Industrial and Production Engineering Semester End Examination; February - 2022 Supply Chain Management									
Time:	3 hrs		Max	. Marks	s: 100				
Course Outcomes The Students will be able to: CO1: The students should learn and understand necessity of Supply Chain management. CO2: Demonstrate ability to make use Supply Chain. CO3: Students will be able to use different types of Dynamometers. CO4: The students get exposure to different types of Supply chain flows methods. CO5: Students should be able to demonstrate the knowledge of Supply Chain management.									
<u>Note</u> : I) PART - A is compulsory. Two marks for each question. II) PART - B: Answer any <u>Two</u> sub questions (from a, b, c) for Maximum of 18 marks from each unit.									
Q. No.	Questions	Marks	BLs	COs	POs				
	I : PART - A	10							
I a.	Mention the cycle views of supply chain.	2	L1	CO1	PO1				
b.	Mention any two factors influencing distribution network design.	2	L1	CO2	PO1				
c.	What do you mean by TCSR?	2	L1	CO3	PO1				
d.	Mention the modes of transportation in supply chain management.	2	L1	CO4	PO1				
e.	What is the concept of six sigma with the help of a suitable graph?	2	L1	CO5	PO1				
II : PART - B									
	UNIT - I	18							
1 a.	Explain with suitable illustrative sketch, the cycle views of supply chain process (Push / Pull process).	9	L2	CO1	PO2				
b.	Explain the drivers of supply chain management using a suitable flow diagram.	9	L2	CO2	PO2				
c.	Explain with a suitable diagram the strategies adopted in achieving strategic fit in supply chain.	9	L2	CO1	PO2				
	UNIT - II	18							
2 a.	Explain any two methods or models for facility / capacity allocation in an industry.	9	L2	CO2	PO2				
b.	Evaluate the network decisions using decision trees for a typical industry.	9	L2	CO2	PO2				
c.	Explain with suitable example the discounted cash flow analysis.	9	L2	CO2	PO2				

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	UNIT - III	18			
3 a.	Explain the role of cycle inventory in a supply chain with suitable example.	9	L2	CO2	PO2
b.	Discuss the driving factors in managing multi echelon cycle inventory with suitable example.	9	L2	CO3	PO1
c.	Discuss the various managerial levers adopted to improve supply	9	L3	CO3	PO2
	chain profitability with an example.	9	LS	05	P02
	UNIT - IV	18			
4 a.	Explain the performance characteristics of any two modes of transportation with trade off.	9	L2	CO4	PO3
b.	Explain the role of sourcing decisions in a supply chain with a suitable example.	9	L2	CO4	PO2
c.	How the revenue management is achieved in transportation in handling of perishable assets, bulk items with suitable example.	9	L2	CO4	PO2
	UNIT - V	18			
5 a.	Explain with suitable example the concept of bull whip effect and its coordination in SCM.	9	L2	CO5	PO2
b.	Explain the following concepts as applied in SCM:				
	i) Lean supply chain	5	L3	CO5	PO1
	ii) Reverse logistics	4			
c.	Discuss the applications of information technology in supply chain management.	9	L2	CO5	PO2

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