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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; Jan. / Feb 2021						
Supply Chain Management						
Tin	ne: 3 hrs Max. Marks: 100					
Not	e: Answer FIVE full questions, selecting ONE full question from each unit.					
	UNIT - I	10				
1 a.	What is supply chain? Explain various supply chain strategies with a neat diagram.	10				
b.	Describe how strategic fit is achieved?	10				
2 a.	With a neat diagram, describe the 4 frameworks for structuring drivers.	8				
b.	What are the obstacles for achieving strategies fit? Explain briefly.	12				
_	UNIT - II					
3 a.	Mention the various factors influencing distribution networks design and explain briefly each of them.	15				
b.	With a neat diagram, explain manufacturer storage with direct shipping.	5				
4 a.	. What are the factors influencing network design decisions? Explain strategic factor briefly.					
b.	Write a short note on the following:					
	i) The impact of uncertainty on network design	10				
	ii) Disconnected cash flow analysis					
	UNIT - III					
5 a.	Describe the role of cycle inventory in the supply chain.	8				
b.	Demand for computer at best buy is 1000 pcs / month. Best buy incur a fixed order					
	placement, transportation and remaining cost of Rs. 4000 each time an order is placed each					
	computer costs best buy Rs. 500 and the retailer has a holding cost of Rs. 20%	12				
	Determine the following:					
	i) Optimal order size ii) Cycle Inventory					
	iii) Number of orderly item iv) Holding Cost v) Average flow time					
6 a.	Describe the two managerial levers to improve supply chain profitability.	10				
b.	Explain the factors affecting optimal level of product availability.	10				
UNIT - IV						
7 a.	Mention the various factors that must be considered for supplier scoring and assessment and explain any five of them.	15				
b.	Write a short note on design collaboration.	5				
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8 a.	List down the factors affecting carrier decision and explain them briefly.		10		
b.	Describe the following:				
	i) Revenue management for perishable assets		10		
	ii) Bulk and spot contacts.				
UNIT - V					
9 a.	Explain the major obstacles to coordination in supply chain.		10		
b.	List the managerial levers to achive coordination.		10		
10.	Write a short note on the followings:				
	a) Reverse logistics				
	b) RFId systems		20		
	c) E-Business framework				
	d) Lean supply chains				

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