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## P.E.S. College of Engineering, Mandya - 571 401

(An Autonomous Institution affiliated to VTU, Belagavi)

Seventh Semester, B.E. - Information Science and Engineering Semester End examination; Dec. - 2019 **Supply Chain Management** 

Time: 3 hrs Max. Marks: 100

*Note*: Answer *FIVE* full questions, selecting *ONE* full question from each unit.

UNIT - I What is a supply chain? Briefly discuss the importance of decision phases in a supply chain. 1 a. 10 Consider the supply chain involved when a customer purchases a book at a bookstore. Identify 8 cycles in this supply chain and the location of the push / pull boundary. c. Define ISCM and SRM. 2 10 Explain with examples, the three basic steps required to achieve the strategic fit. b. Give arguments to support the statement that Wal-Mart has achieved very good strategic fit 5 between its competitive and supply chain strategies. c. What is the importance of expanding the scope of strategic fit across the supply 5 chain? Explain. **UNIT-II** 3 a. Explain the following delivery network designs with respect to Information, Facility and Handling, Transpiration, Inventory, Returnability, Customer Experience, Product Availability, 10 Product Variety, and Order Visibility factors; i) Retail storage with Customer Pickup ii) Manufacturer storage with In-Transit Merge Illustrate the impact of E-Business on Customer Service and the impact of E-Business on 10 supply chain cost. Explain the role of network design in the supply chain. 10 List and explain the issues that managers should keep in mind when making network design 10 decisions for a supply chain. **UNIT - III** Explain the basic approach to demand forecasting in detail. 10 b. Discuss the following: i) Role of IT in forecasting 10 ii) Forecasting in practice

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6 a.	List and explain the approaches used to reduce the cost of capacity required to meet						
	predictable variability.	10					
b.	List the key factor influencing the timing of a promotion and explain how we can implement	10					
	sales and operations planning in practice?						
	UNIT - IV						
7 a.	Discuss the role of cycle inventory in a supply chain.						
b.	Explain the two commonly used lot-size-based discount schemes in detail.						
8 a.	Discuss the role of safety inventory in a supply chain.						
b.	b. How we can estimate and mange safety inventory in practice? Explain.						
	UNIT - V						
9 a.	Define Procurement and list the advantages of effective sourcing decisions.						
b.	Discuss the risks that firms must evalute when they move any function to a third party.						
10 a.	Explian the role of pricing and revenue management in a supply chain.	10					
b.	Discuss the pricing and revenue management for;						
	i) Seasonal demand	10					
	ii) Bulk and Spot contracts						

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