APJ Abdul Kalam Technological University

Ernakulam II Cluster

Second Semester M. Tech Degree Examination May 2017

05ME6406 - SUPPLY CHAIN MANAGEMENT

Time: 3 hrs.

Max. Marks: 60

Module 1

1.	a)	"Supply of product can be controlled combining production capacity and	inventory".
		Discuss.	(4 Marks)
	b)	Differentiate logistics and SCM. Explain the 5 decision areas of a SC.	(4 Marks)
	c)	Explain the obstacles to coordination in a SC.	(4 marks)

Module 2

2.	a)	Enumerate the role of IT in aggregate planning.	(4 Marks)			
	b)	Comment on the four types of forecasting techniques.	(4 Marks)			
	c)	Enumerate in about 100 words the operational parameters to be identified	in aggregate			
		planning.	(4 Marks)			
	Module 3					
3.	a)	List the two factors that determine the level of safety inventory.	(6 Marks)			
	b)	"A goal of any supply chain manager is to reduce the level of safety inventor	ry required in			
		a way that does not adversely affect product availability." Comment?	(6 Marks)			
	c)	What is product availability? Explain Product fill rate, Order fill rate and 0	Cycle service			
		level.	(6 Marks)			
		OR				
4.	a)	Explain two types of inventory control models subject to uncertain demands	? (9 Marks)			
	b)	Enumerate the key goals (from the manufacturer's perspective) of a trade pro	motion?			
			(6 Marks)			
	c)	Write the Procedures of Simple Exponential Smoothing Method?	(6 Marks)			

Module 4

5.	a)	List the factors influencing the choice of transportation mode?	(6 Marks)
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b)	Enumerate the various optimal routing strategies?	(6 Marks)
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c) Explain three types of performance indicators in transportation performance analysis?

(6 Marks)

OR

- 6. a) Enumerate the various effective transportation management techniques? (6 Marks)
 - a) List the three main types of risk to consider when transporting a shipment between two nodes on the network? (6 Marks)
 - b) Discuss 3PL? List some services provided by 3PL with respect to Reverse logistics and Warehousing? (6 Marks)