KUMARAGURU
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B.E DEGREE EXAMINATIONS: APRIL / MAY 2023

(Regulation 2018)

Seventh Semester

MECHANICAL ENGINEERING

U18MEE0017: Logistics and Supply Chain Networks

COURSE OUTCOMES

CO1: Justify significance of a logistics and its relationship to supply chain management.
CO2: Identify and resolve contemporary issues in a logistic environment
CO3: Understand basics of supply chain and its overview
CO4: Analyze impact of sourcing decision in supply chain performance
CO5: Build distribution network design by analyzing its influencing factors

Time: Three Hours   **Maximum Marks: 100**

Answer all the Questions:-
PART A (10 x 2 = 20 Marks)
(Answer not more than 40 words)

1.	Is non-value-added activity a part of value chain? Justify your answer.	CO1	[K3]
2.	What is the cost-trade-off in logistics?	CO1	[K2]
3.	Explain the significance of logistics for electronic goods.	CO2	[K2]
4.	Explain the effect of macroeconomics on supply chain demand planning.	CO2	[K2]
5.	What are three basic flows in supply chain.	CO3	[K1]
6.	Differentiate effective and efficient supply chain.	CO3	[K2]
7.	Explain the significance of suppler categorization to determine supplier relationship.	CO4	[K3]
8.	How to achieve the strategic fit in supply chain?	CO4	[K3]
9.	"Trust is basis for all collaboration" – Explain with respect to context of supply chain alliance.	CO5	[K2]
10.	What is in-transit inventory?	CO5	[K2]

Answer any FIVE Questions:-
PART B (5 x 16 = 80 Marks)
(Answer not more than 400 words)

11.	a)	Differentiate logistics and supply chain management with the help of a case study.	8	CO1	[K2]
	b)	Explain logistics in the context of marketing and production.	8	CO1	[K2]
12.	a)	Explain the different modes of transportation. Select a mode for high-value &	8	CO2	[K3]

low-life-cycle product and justify your selection.

b)	Describe the scope of supply chain management.	8	CO2	[K$_2$]
13. a)	List the benefits of global sourcing. Justify the statement "Sourcing from low-labor-cost countries is efficient for labor intensive jobs".	8	CO3	[K$_3$]
b)	Enumerate the steps to be followed in the procurement process.	8	CO3	[K$_2$]
14. a)	What is distribution network optimization? Explain with a case study.	8	CO4	[K$_3$]
b)	Explain the factors influencing the distribution network design.	8	CO4	[K$_2$]
15. a)	Explain the framework of supply chain performance.	8	CO5	[K$_2$]
b)	How will you do supplier selection for perishable goods. Justify your selection.	8	CO5	[K$_3$]
16. a)	Explain the functions of sourcing and the benefits of effective sourcing decisions.	8	CO1	[K$_3$]
b)	With the help of a case study explain the need for supplier scoring process.	8	CO3	[K$_2$]

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