Ref. No.: Ex/PROD/PE/B/T/412A/2024(S)

B.E. PRODUCTION ENGINEERING FOURTH YEAR FIRST SEMESTER SUPPLEMENTARY EXAMINATION – 2024

Subject: LOGISTICS AND SUPPLY CHAIN MANAGEMENT

Time: Three Hours Full N	1arks: 100
Answer Question No. 1 any Four from the rest	
Instruction: Use appropriate schematic / flow diagrams and figures wherever possible / ap	pplicable
 (a) How the Supply Chain Management & Logistics are related to each other? Explare the supply chain stages? How do you observe the cycle-views with the supply c stages? (b) Prepare & present a case study based on a company of your own choice t Push/Pull boundary and line of demarcation for efficiency & responsiveness. (c) What do you mean by circular economy? Explain with comparisons for Supply Chain, Sustainable Supply Chain and Circular Supply Chain. 	chain $(5+5)$ to show the $(10+10)$
2. (a) What types of distribution networks are typically best suited for commo Explain.(b) What are the supply chain drivers? How do you establish supply chain decis framework considering those drivers?	•
3. (a) What is Bull-Whip effect in a supply chain? Mention the causes in detail. He tackle it?(b) What is "Service Level"? Explain the effects of the increase and the decreas level.	
4. (a) Identify the major factors influencing network design decisions.(b) Mention & Analyse the possible Design Options for Distribution Networks with diagrams.	rith suitable (5 + 10)
5. (a) How does shipping with milk runs operate? Explain with up-stream and dow scenarios of a supply chain. Mention the operational parameters over a specific horizon.(b) How has IT enabled Customer Relationship Management (CRM)?	d time
6. (a) Elucidate Aggregate Planning Strategies in a supply chain.(b) What is the role of IT in Aggregate Planning? Analyse.	(10+5) $(10+5)$
7. (a) How does e-business impact the distribution network. Mention the associated the use of IT in supply chain and corresponding mitigation strategies.(b) Elaborate the services provided by third party logistics (3PLs).	d risks with $(10+5)$
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