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									Code No.: 17532 S (B)

VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS), HYDERABAD Accredited by NAAC with A++ Grade

B.E. (Mech. Engg.) VII-Semester Supplementary Examinations, July-2022 Supply Chain Management (PE-II)

Time: 3 hours

Max. Marks: 60

Note: Answer all questions from Part-A and any FIVE from Part-B

Part-A $(10 \times 2 = 20 Marks)$

Q. No.	Stem of the question	M	L	CO	PO
1.	List the stages which are typically involved in any supply chain.	2	1	1	9
2.	Summarize the goal of drivers in a supply chain.	2	2	1	9
3.	Define distribution with respect to a supply chain.	2	1	2	4
4.	Identify the factors that affect the network design decisions in supply chains.	2	2	2	4
5.	Differentiate between a push and a pull process.	2	2	3	9
6.	Discuss about the various operational practices in a supply chain.	2	1	3	11
7.	Compare cycle inventory and safety inventory.	2	1	4	4
8.	What is optimal level of product availability?	2	2	4	4
9.	Briefly describe the role of transportation in a supply chain.	2	2	5	9
10.	Compare sourcing and procurement.	2	1	5	9
	Part-B $(5 \times 8 = 40 Marks)$				
11. a)	Enunciate about the goal of a supply chain and explain the impact of supply chain decision in the success of a firm.	4	3	1	4
b)	Identify the drivers involved in a supply chain and elaborate about the influence of any two drivers on a supply chains' performance.	4	4	1	4
12. a)	Enlist the six distribution network designs and compare any two distribution network design options by comparing the cost and service factors.	4	4	2	4
b)	Discuss about the impact of globalization on supply chain networks.	4	4	2	9
13. a)	Write a note on time-series forecasting methods.	4	4	3	1
b)	Elucidate on the aggregate planning strategies.	4	2	3	4

14. a)	Discuss the effect of lot size on costs when considering the economies of scale to exploit fixed costs. How is the optimal lot size identified?		4	4	4
b)	Justify the role of safety inventory in a supply chain.	4	3	4	9
15. a)	Discuss the performance characteristics of various modes of transportation.	4	3	5	4
b)	Elaborate on any two design options for a transportation network.	4	3	5	4
16. a)	Seven-Eleven's supply chain strategy in Japan can be described as attempting to micro-match supply and demand using rapid replenishment. What are some risks associated with this choice?	4	4	1	11
b)	Elaborate on the framework for network design decisions by using the four phases involved.	4	2	2	4
17.	Answer any <i>two</i> of the following:				
a)	Compare and contrast the just-in-time (JIT) and Vendor managed inventory (VMI).	4	2	3	9
b)	When is short term discounting used? State the three goals of trade promotions.	4	3	4	4
c)	Elaborate on the role of sourcing on a supply chain. Suggest when to choose In-house or outsource.	4	3	5	9
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M: Marks; L: Bloom's Taxonomy Level; CO; Course Outcome; PO: Programme Outcome

i)	Blooms Taxonomy Level – 1	20%
ii)	Blooms Taxonomy Level – 2	22%
iii)	Blooms Taxonomy Level - 3 & 4	58%
