CBCS SCHEME

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18ME653

Sixth Semester B.E. Degree Examination, June/July 2023
Supply Chain Management

Time: 3 hrs. Max. Marks: 100

Note: ***Answer any FIVE full questions, choosing ONE full question from each module.***

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.

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OR

8 a. Explain the concept of overbooking with relevant model and a suitable example. **(10 Marks)**

b. A Manager at a warehouse department plans for the size of the warehouse. The study reveals that the housing needs is normally distributed with a mean of 6,00,000 square feet and standard deviation of 195, 000. The Manager can lease a warehouse in advance for next 3 years at Rs 300000/year or purchase the warehouse on the spot market at an average of Rs 500000/year. How large, the annual contract should the Manager sign? **(10 Marks)**

Module-5

9 a. Why Integration is necessary in a supply chain? How do you achieve it? Explain. **(10 Marks)**

b. What is Bull Whip effect? What causes it? How do you control it? Explain briefly. **(10 Marks)**

OR

10 a. Explain the concept of Supply Chain Mapping with relevant diagrams. **(10 Marks)**

b. Is information technology a key driver for the success of SCM? What characteristics of Information will support supply chain decision? Explain briefly. **(10 Marks)**

Note : for question 8b , choose the suitable value from the following table :

Value of K	Service level in %
- 0.1	46.0
- 0.2	42.1
- 0.3	38.2
- 0.4	34.5
- 0.5	30.8
- 0.6	27.5
- 0.7	24.5

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