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18IM81

Eighth Semester B.E. Degree Examination, July/August 2022 Supply Chain Management

Time: 3 hrs.

Max. Marks: 100

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

Module-1

- 1 a. What is supply chain and explain the Three key flows of supply chain with neat diagram. (10 Marks)
- b. Briefly explain process views of a supply chain with necessary sketches. (10 Marks)

OR

- 2 a. Briefly explain the relationship between competitive and supply chain strategies. (10 Marks)
- b. With necessary sketch, explain supply chain decision making frame work. (10 Marks)

Module-2

- 3 a. List and explain the factors affecting distribution network design in the supply chain. (10 Marks)
- b. List the two key decisions to be considered when designing a distribution network. Explain any two distribution network designs. (10 Marks)

OR

- 4 a. Explain the factors influencing network design decisions in supply chain. (10 Marks)
- b. Explain the framework for network design decisions. (10 Marks)

Module-3

- 5 a. What is the impact of uncertainty on Supply Chain Network (SCN)? Explain with suitable example. (10 Marks)
- b. Briefly explain discounted cash flow analysis. (10 Marks)

OR

- 6 a. Discuss network design decisions using decision trees. (10 Marks)
- b. Write a note on the followings: (i) Capacity plant location model (ii) Gravity model. (10 Marks)

Module-4

- 7 a. What is the role of Inventory Management in SCM? Explain the benefits and challenges of Inventory Management. (10 Marks)
- b. List and explain Inventory Management Techniques. (10 Marks)

OR

- 8 a. Briefly explain the Three types of Stock Aggregation. (10 Marks)
- b. What is Aggregate Inventory Management? Discuss the objectives of Aggregate Inventory Management. (10 Marks)

Module-5

- 9 a. What is Reverse Logistics? How it works, explain with suitable example. (10 Marks)
- b. Briefly explain the components of Reverse logistics with suitable sketch. (10 Marks)

OR

- 10 a. What is RFID system? Explain the components of RFID technology. (10 Marks)
- b. Briefly explain implementation of Six-Sigma in supply chain. (10 Marks)

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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.