

Task :

- (a) Outline the e-business framework used by Amazon and explain how it reduces operational and transportation costs.
- (b) Discuss its impact on supply chain performance and customer satisfaction.

MBSC 3005 R

M.B.A. DEGREE EXAMINATION, MAY 2026.

Third Semester

Operations and Supply Chain Management

INFORMATION SYSTEM IN SUPPLY CHAIN
MANAGEMENT

(2023 Regulation)

Time : Three hours

Maximum : 75 marks

PART A — (5 × 4 = 20 marks)

Answer any FIVE questions.

1. Outline the major macro processes in the supply chain IT framework.
2. Illustrate how IT is applied in managing warehouse facilities.
3. Explain the significance of the Transaction Management Foundation in IT-based supply chains.
4. Classify any four common data mining methods used in supply chain analytics.

5. Write any two key goals of implementing Information Technology in Supply Chain Management.

6. Simplify the importance of IT standardization in ensuring system integration across supply chain partners.

7. Describe the structure of a Decision Support System (DSS) in a supply chain environment.

8. Discuss the significance of transportation data in supply chain information systems.

PART B — (5 × 8 = 40 marks)

Answer any FIVE questions.

9. Compare the use of IT in managing inventory vs. transportation in a supply chain.

10. Design an IT-based solution to enhance visibility and decision-making in a global supply chain.

11. Analyze how data mining can be integrated with SCM system to enhance demand forecasting and inventory planning.

2

MBSC 3005 R

12. Evaluate the role of Transaction Management Foundation in supporting seamless e-commerce operations across a global supply chain.

13. Illustrate the application of presentation and communication devices in streamlining warehouse and transport operations.

14. Propose a framework for integrating database management systems with cloud computing in modern supply chain.

15. Draw and interpret a diagram showing the structure of a DSS in the context of strategic supply chain planning.

16. Breakdown the elements involved in designing an effective supply chain information system focused on manufacturing and operations.

PART C — (1 × 15 = 15 marks)

Answer the following.

17. Case Study (Compulsory).

Amazon has evolved its e-business model to support high-volume global transaction with minimal human intervention. Its integrated supply chain IS manages inventory, order processing, and logistics in real-time.

3

MBSC 3005 R