

GUJARAT TECHNOLOGICAL UNIVERSITY

B.VOC- SEMESTER-VI EXAMINATION – SUMMER 2025

Subject Code:21160202

Date:12-05-2025

Subject Name: IT in Supply Chain Management

Time:10:30 AM TO 12:30 PM

Total Marks:50

Instructions:

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. Simple and non-programmable scientific calculators are allowed.

	Marks
Q.1 (a) Describe the scope of supply chain management in detail.	05
(b) Explain the role of IT in transforming supply chain process.	05
Q.2 (a) State the different RFID tag types.	05
(b) Give examples of integrating RFID with other technologies.	05
OR	
(b) Explain barcoding systems for inventory control along with the basics of barcoding in SCM.	05
Q.3 (a) Explain WMS training and user adoption.	05
(b) Explain how WMS integrations streamline the operations.	05
OR	
Q.3 (a) Explain the features and capabilities of WMS along with its core functions.	05
(b) Describe the challenges and best practices to overcome the challenges in WMS.	05
Q.4 (a) State the benefits of IoT in logistics in detail.	05
(b) Explain the role of robotics in warehouse operations in detail.	05
OR	
Q.4 (a) List and explain IoT sensors and devices in detail.	05
(b) Write a detailed note on autonomous vehicles and drones in logistics.	05
Q.5 (a) Discuss smart contracts in SCM in detail.	05
(b) What is industry 4.0? Explain it in detail.	05
OR	
Q.5 (a) Write a detailed note on security and trust in blockchain.	05
(b) Explain the integration of big data and AI in future supply chains.	05
