R.N.G.PATEL INSTITUTE OF TECHNOLOGY-RNGPIT
(An Autonomous Institute U/s UGC Act 1956)

MBA SEMESTER-III, SEMESTER END EXAMINATION – WINTER 2025

SUBJECT CODE: 1MB1306	**DATE: 09-01-2026**
SUBJECT NAME: RISK MANAGEMENT IN SUPPLY CHAIN AND LOGISTICS	
TIME: 09:00 AM to 12:00 PM	**TOTAL MARKS: 70**

Instructions

1. It is **compulsory** for students to write **Enrolment No. /Seat No.** on the question paper.
2. Write answers of **Section A** and **Section B** in **separate answer books**.
3. Attempt all questions from both **Section A** and **Section B**.
4. Each section carries **35 marks**, with a total of **70 marks** for the examination.
5. The figures to the right of each question indicate full marks, make suitable assumptions with justification.
6. BL - Bloom's Taxonomy Levels (R-Remember, U-Understanding, A –Application, N –Analyze, E – Evaluate, C -Create), CO - Course Outcomes.

SECTION A

	Marks	BL	CO
Q.1 Multiple-Choice Questions	**[05]**		
(a) What is the first step in managing risks in supply chains?	1	R	1

    (i) Risk Mitigation   **(ii)** Risk Identification

    (iii) Risk Assessment   **(iv)** Monitoring and Review

	Marks	BL	CO
(b) Which type of risk arises from daily supply chain operations?	1	R	1

    (i) Financial Risks   **(ii)** Operational Risks

    (iii) Disruption Risks   **(iv)** Strategic Risks

	Marks	BL	CO
(c) What type of risk arises from unexpected events like political instability or pandemics?	1	U	1

    (i) Operational Risks   **(ii)** Financial Risks

    (iii) Disruption Risks   **(iv)** Strategic Risks

	Marks	BL	CO
(d) What is a mitigation strategy for managing political instability risks?	1	U	2

    (i) Single sourcing from unstable regions   **(ii)** Geopolitical risk analysis

    (iii) Limiting supply chain transparency   **(iv)** Reducing supplier relationships

(e) Which of the following is a disadvantage of multiple sourcing? **1 R 2**

    (i) Increased supplier diversification **(ii)** Higher administrative and logistics costs

    (iii) Greater supply chain resilience **(iv)** Reduced supplier relationship strength

Q.2 Attempt Any Two [10]

(a) What are the different types of risks that can affect supply chains and logistics operations? **5 R 1**

(b) How do quantitative approaches differ from qualitative ones in supply chain risk assessment? **5 U 1**

(c) How can Artificial Intelligence (AI) and Blockchain technologies be leveraged for mitigating risks in supply chains? **5 U 1**

Q.3 Attempt Any Two [10]

(a) How do pandemics impact supply chains? Give idea with examples. **5 U 2**

(b) What are the benefits and challenges of using multiple sourcing suppliers? **5 R 2**

(c) How do agile supply chains help manage risks? Can you provide an example? **5 U 2**

Q.4 Attempt Any Two [10]

(a) How do frameworks like SCOR, FMEA, and Monte Carlo Simulation assist in identifying risks within supply chains? **5 A 1**

(b) In what ways can AI and the Internet of Things (IoT) contribute to effective risk mitigation strategies in supply chain management? **5 A 1**

(c) How do natural disasters affect supply chains? Give Examples for it. **5 U 2**

SECTION B

Q.5 Multiple-Choice Questions [05]

(a) Financial risk caused due to fluctuations in international currency value is known as   1   R   3

    (i) Cyber risk   **(ii)** Exchange rate risk

    (iii) Sustainability risk   **(iv)** Fraud risk

(b) Credit risk in supply chains occurs when   1   U   3

    (i) Suppliers deliver early   **(ii)** Prices fall

    (iii) Transport becomes faster   **(iv)** A buyer delays or defaults on payment

(c) A major tool for cyber-risk mitigation in supply chains is   1   R   3

    (i) Manual record keeping   **(ii)** Block chain

    (iii) Barter system   **(iv)** Paper invoices

(d) Reducing environmental impact in logistics refers to   1   R   4

    (i) Green Supply Chain Management   **(ii)** Blue Economy

    (iii) Grey Logistics   **(iv)** Rapid Transport

(e) Ethical sourcing ensures that suppliers   1   U   4

    (i) Provide goods cheaply   **(ii)** Follow legal and moral practices

    (iii) Deliver products quickly   **(iv)** Reduce employee count

Q.6 Attempt Any Two [10]

(a) Explain financial risks in supply chains with examples of credit risk and exchange rate risk.   5   U   3

(b) Describe price volatility and its impact on transportation and freight cost decisions.   5   U   3

(c) Explain how block chain technology can help reduce cyber risks in logistics.   5   A   3

Q.7 Attempt Any Two [10]

(a) Discuss the role of AI in fraud detection and prevention in logistics transactions.   5   A   3

(b) Analyze the major cyber security threats faced by digital supply chain networks.   5   N   3

(c) Explain environmental and sustainability risks in logistics operations.   5   U   4

Q.8 Attempt Any Two   **[10]**

    (a) Discuss the concept of Green Supply Chain Management with examples.   **5   U 4**

    (b) Apply ethical sourcing principles to eliminate supplier compliance issues.   **5   A 4**

    (c) Evaluate sustainability risks in the apparel and fashion industry.   **5   E 4**

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