



REFORMED CHURCH UNIVERSITY

FACULTY OF COMMERCE

**BACHELOR OF COMMERCE HONOURS DEGREE IN
LOGISTICS AND SUPPLY CHAIN MANAGEMENT**

SUPPLY CHAIN NETWORK ANALYSIS

HLSM 242

PART 2 SEMESTER 2

TOTAL MARKS [100]

DATE: DECEMBER 2024

Time: 3 Hours

INSTRUCTIONS

1. This paper has *six (6)* questions
2. Answer question *one (1)* and *any* other *three (3)*
3. Each question carries *25 marks*
4. Start each question on a new page

1. Discuss the role of network analysis in evaluating the environmental impact of supply chains in Zimbabwe. [25 marks]
2. Explain strategies for designing and optimizing networks for sustainability in developing countries. [25 marks]
3. Analyse the trade-offs between achieving economic efficiency and environmental sustainability in supply chain network design, using real- world scenarios. [25 marks]
4. Discuss the potential of emerging technologies like artificial intelligence (AI), Big Data, and the Internet of Things (IoT) in improving supply chain network analysis and optimization in organization of your choice. [25 marks]
5. Analyse different strategies for mitigating risks and building network resilience for various types of disruptions in disaster management. [25 marks]
6. Discuss different types of network modelling software and their capabilities for evaluating different scenarios in an organization of your choice. [25 marks]

END OF PAPER