

**UNIVERSITY OF BOLTON**

**OFF CAMPUS DIVISION**

**INSTITUTE OF DEVELOPMENT MANAGEMENT**

**MSC LOGISTICS & SUPPLY CHAIN MANAGEMENT**

**SEMESTER 1 EXAMINATIONS 2024/2025**

**LOGISTIC MANAGEMENT**

**MODULE NO: SCM7102**

Date: Sunday 19th January, 2024.

Time: 3 HOURS

---

**INSTRUCTIONS TO CANDIDATES:**

There are SIX (6) questions on this paper.

Answer FOUR (4) questions.

All questions carry equal marks.

---

University of Bolton  
Off Campus Division  
Institute of Development Management  
MSc Logistics and Supply Chain Management  
Semester 1 Examination 2024/2025  
Logistic Management  
Module No. SCM 7102

**BUSINESS SCENARIO: LOGISTICS IN BOTSWANA**

A logistics company, Kgale Transport Solutions, operates in Botswana, focusing on connecting local businesses to domestic and international markets. The company manages both inbound and outbound logistics for clients, including retail stores, manufacturers, and mining firms. They operate within the following constraints: a semi-arid climate affecting transportation, competition from South African logistics companies, and increasing fuel costs. To gain a competitive edge, they are exploring green logistics strategies and adopting emerging technologies like IoT and AI in supply chain management.

**Key Challenges:**

Navigating remote areas with poor infrastructure for reverse logistics.

Balancing operational costs with sustainability goals.

Incorporating emerging technologies to enhance efficiency.

Adapting to diverse transportation needs across industries.

Managing logistics for both high-volume mining exports and low-volume retail imports.

1. Discuss the role of forward and reverse logistics in overcoming operational challenges for Kgale Transport Solutions in Botswana. Provide examples.

**(Total 25 marks)**

2. Evaluate the effectiveness of various transportation modes (road, rail, and air) for domestic and international logistics in Botswana's supply chain context.

**(Total 25 marks)**

3. Propose green logistics strategies that Kgale Transport Solutions can implement to reduce environmental impact while maintaining profitability.

**(Total 25 marks)**

**PLEASE TURN THE PAGE**

University of Bolton  
Off Campus Division  
Institute of Development Management  
MSc Logistics and Supply Chain Management  
Semester 1 Examination 2024/2025  
Logistic Management  
Module No. SCM 7102

4. Analyse how emerging technologies like IoT and AI could transform Kgale Transport Solutions' supply chain operations in Botswana.

**(Total 25 marks)**

5. Compare the complexities of inbound versus outbound logistics for mining exports and retail imports in Botswana. Suggest solutions to optimize each process.

**(Total 25 marks)**

6. Explain the role of customer and stakeholder engagement in designing sustainable and efficient logistics operations for the company.

**(Total 25 marks)**

**END OF QUESTIONS**