

UNIVERSITY OF BOLTON

GREATER MANCHESTER BUSINESS SCHOOL

MSC LOGISTICS AND SUPPLY CHAIN

MANAGEMENT

SEMESTER 1 EXAMINATION 2024/2025

SUSTAINABILITY IN BUSINESS OPERATIONS

MODULE NO. SCM7107

Date: Thursday 9th January 2025

Time: 10.00am – 1.00pm

INSTRUCTIONS TO CANDIDATES:

There are SIX (6) questions on this paper.

Answer FOUR (4) questions.

The exam is 3 Hours.

All questions carry 25 marks each.

Total Marks 100%

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Greater Manchester Business School
MSc Logistics and Supply Chain Management
Semester 1 Examination 2024/2025
Sustainability in Business Operations
Module No. SCM7107

Question 1:

Critically evaluate how an organisation of your choice can implement circular economy principles to reduce waste and improve sustainability in its supply chain. Use relevant examples to support your answer.

(Total 25 Marks)

Question 2:

Discuss the primary challenges faced by organisations when adopting green manufacturing practices. Provide recommendations for overcoming these challenges with examples from different industries.

(Total 25 Marks)

Question 3:

Analyse the role of social sustainability in supply chains. Discuss two specific strategies an organisation could implement to enhance social sustainability and the potential impacts of these strategies.

(Total 25 Marks)

Question 4:

Critically appraise how an organisation can utilize Life Cycle Assessment (LCA) as a tool to improve the sustainability of its operations. Include considerations of both environmental and financial factors.

(Total 25 Marks)

Question 5:

Evaluate the benefits and limitations of using sustainable packaging materials. Discuss how an organisation could transition to more sustainable packaging and the potential challenges it may face.

(Total 25 Marks)

Question 6:

Critically discuss three methods an organisation can employ to reduce its carbon footprint in logistics and supply chain operations. Provide examples of organisations successfully implementing these methods.

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