



STRATHMORE UNIVERSITY BUSINESS SCHOOL
BACHELOR OF SCIENCE IN SUPPLY CHAIN AND OPERATIONS
MANAGEMENT

END-OF-SEMESTER EXAMINATION

SCM 4202: SUSTAINABLE SUPPLY CHAIN ENGINEERING AND REVERSE LOGISTICS

DATE: 14th DECEMBER, 2023

TIME: 10:30-12:30

Instructions

1. This examination consists of **FIVE** questions.
2. Answer Question **ONE (COMPULSORY)** and any other **TWO** questions.

QUESTION ONE

(30 MARKS)

- a) Evaluate any **TWO** potentials of blue economies from a maritime transport and ocean nutrient perspective. **(4 Marks)**
- b) Explain **FIVE** elements of Extended Producer Responsibility borrowing from the Sustainable Waste Management Act. **(5 Marks)**
- c) Define Sustainable Development. **(0.5 Marks)**
- d) What are the tenets of modernization of ecology? **(4 Marks)**
- e) Outline any **THREE** sustainability frameworks. **(6 Marks)**
- f) Define cultural sustainability. **(0.5 Marks)**
- g) Highlight any **FIVE** cultural sustainability practises that you can draw from the community you come from? **(5 Marks)**
- h) Explain any **FIVE** Planetary boundary framework aspects that have been transgressed by humanity. **(5 Marks)**

QUESTION TWO**(15 MARKS)**

Discuss any FIVE recent developments in the field of sustainable supply chain management.

QUESTION THREE**(15 MARKS)**

Explain the convergent and divergent points of sustainability and technology using any FIVE points. Will you be for convergent or divergent? Why?

QUESTION FOUR**(15 MARKS)**

Assuming you are working for a company that is looking into investing in sustainable supply chain management, develop a business case for the company and its supply networks.

QUESTION FIVE**(15 MARKS)**

Discuss FIVE key sustainable supply chain practices for achieving sustainable development following the structure of the supply chain.