

UNIVERSITY OF BOLTON
OFF CAMPUS DIVISION
INSTITUTE OF DEVELOPMENT MANAGEMENT
BSC LOGISTICS AND SUPPLY CHAIN
MANAGEMENT
SEMESTER 1 EXAMINATION 2024/25
SUSTAINABLE SUPPLY CHAIN STRATEGY
MODULE NO: SCM6107

Date: Monday 27th January, 2025

Time: 2 Hours

INSTRUCTIONS TO CANDIDATES:

There are SIX (6) questions on this paper.

Answer FOUR (4) questions.

All questions carry equal marks.

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1. Critically evaluate the benefits of sustainability in supply chains.

[TOTAL 25 MARKS]

2. Critically analyse how an organization can achieve value for money by adopting sustainable supply chain strategy.

[TOTAL 25 MARKS]

3. Critically discuss the significance of sustainable supply chain strategy.

[TOTAL 25 MARKS]

4. With reference to an organization of your choice, critically discuss how to formulate a sustainable supply chain strategy.

[TOTAL 25 MARKS]

5. Critically discuss factors that drive sustainability.

[TOTAL 25 MARKS]

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CASE STUDY

Read the below case study and use it to answer Question 6.

Transitioning to the circular economy could deliver many benefits: Circularity in Africa has to be reachable and it has to be tangible. It needs to be a thing that people will embrace because they can afford it, and because they see its value.

Bio-waste to compost

African soils have huge importance for food security and sustainable development, both for the continent and the world. However, some 40% are already degraded. This impacts negatively on food production and leads to soil erosion, which in turn contributes to desertification. This is especially concerning since 83% of people in sub-Saharan Africa depend on the land for their livelihoods. It is estimated that by 2050 food production will have to increase almost 100% to feed Africa's future population. How can agriculture in Africa meet this goal while not continuing the trend of adopting sustainable practices? Part of the answer lies in regenerative agriculture, and one solution is the use of agricultural or domestic waste to produce compost. Compost adds organic matter to soil, macro and micro nutrients and beneficial soil organisms that improve the health and structure of soil, store water, and sequester CO₂ from the atmosphere. The 'waste' that can be used to make it is often as abundant as it is undervalued: organic waste can make up as much as 60% of municipal waste in African cities. Using locally generated waste also brings savings for African farmers, who often pay a mark-up of between two to five times the price for soil correctives.

6. Critically evaluate the concept of circular economy with reference to sustainability.

[TOTAL 25 MARKS]

END OF QUESTIONS