

The  
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**UNDERGRADUATE UNIVERSITY EXAMINATIONS**  
**SCHOOL OF MANAGEMENT AND LEADERSHIP**  
**DEGREE OF BACHELOR OF ARTS IN DEVELOPMENT STUDIES**

**BDS 308: SUSTAINABLE DEVELOPMENT**

**DATE: 16<sup>TH</sup> DECEMBER 2024**

**DURATION: 2 HOURS**

**MAXIMUM MARKS: 70**

**INSTRUCTIONS:**

1. Write your registration number on the answer booklet.
2. **DO NOT** write on this question paper.
3. This paper contains **SIX (6)** questions.
4. Question **ONE** is compulsory.
5. Answer any other **THREE** questions.
6. Question **ONE** carries **25 MARKS** and the rest carry **15 MARKS** each.
7. **Write all your answers in the Examination answer booklet provided.**

## QUESTION ONE

Read the Case Study below carefully and answer the questions that follow:

### COASTAL AND MARINE RESOURCES

Kenyan coast features a diverse marine environment including estuaries, mangroves, sea grass beds, intertidal reef platforms and coral reefs that are vital for the diversity and reproduction of marine organisms. These are some of Kenya's most valuable ecosystems and are protected by six marine national reserves and parks. The Kenyan coastal economy is highly dependent on natural resources on which various activities are based namely agriculture, maritime trade, tourism, fishing and mining among others. The resources also support various cultural and spiritual values of the local people. The principal economic activities that contribute to the livelihood of the people based on natural resources are: tourism (45%), port and shipping (15%), agricultural industry (8%), fisheries (6%), agriculture (5%), forestry (4%), and mining (2%) (GoK, 2019). On average, coastal tourism contributes over 60% of total earnings from tourism and employs thousands of coastal dwellers and contributes 9.2% to the Gross Domestic Product (GDP).

This important ecosystem faces various threats from the ever-increasing human population pressure through destruction of coastal ecosystems (mangroves, coral reefs, sea grass beds, coastal forests, beaches, pelagic systems), unsustainable utilization of coastal resources, inadequate enforcement of legislation, lack of land use and development plans, inadequate capacity for monitoring and surveillance, poor waste management, limited access to resources and inequitable benefit sharing, erosion of Indigenous Knowledge Systems in coastal resource management and human-wildlife conflicts.

Some estimates suggest that about half of the mangroves on Kenya's coast have been lost over the past 50 years due to the overexploitation of wood products and conversion to salt-panning, agriculture and other uses (UNEP, 2019).

#### Required:

- a) Assess ~~five reasons~~ for managing and conserving coastal and marine resources. **(10 Marks)**

- b) Describe five challenges facing stakeholders in conserving coastal and marine resources. (10 Marks)
- c) Discuss five types of effluents affecting the marine life (5 Marks)

### QUESTION TWO

- a) The Sustainable Development Goals are essential in the attainment of ending poverty, protecting the planet and improving the lives and prospects of everyone, everywhere. Assess **five** ways of ending poverty in Sub-Saharan Africa. (10 Marks)
- b) Soil is one of the most important natural resources in the planet. Describe **five** ways of conserving soil for economic development. (5 Marks)

### QUESTION THREE

- a) Analyze five products that are provided by the natural environment in relation to sustainable development. (10 Marks)
- b) Illustrate five benefits of ecological footprints. (5 Marks)

### QUESTION FOUR

- a) Evaluate five ways in which poor nations are disadvantaged in terms of trade as compared to rich countries. (10 Marks)
- b) Enumerate five consequences of energy scarcity in relation to sustainable development (5 Marks)

### QUESTION FIVE

- a) Describe five advantages of involving many stakeholders in developing social diversity and equity initiatives (10 Marks)

- b) "Almost half of the world's population relies on wood-biomass energy for cooking and heating." Discuss two causes of conflicts with regards to local energy security (5 Marks)

**QUESTION SIX**

- a) Usings Lawn's model, assess five costs of economic activities in relation to ecosystem management (10 Marks)
- b) Explain five adaptation strategies to climate change (5 Marks)