

DIMA 00112

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

**EXAMINATION FOR THE AWARD OF CERTIFICATE IN DISASTER
MANAGEMENT**

DIMA 00112: PRINCIPLES OF CONSERVATION

STREAMS: CERT. DIMA

TIME:2 HOURS

DAY/DATE: THURSDAY 19/12/2024

8.30 A.M. – 10.30 A.M.

INSTRUCTIONS: Answer question ONE and any other TWO questions

SECTION A

- 1a) Explain the meaning of the following terms: (10 marks)
- i. Biodiversity
 - ii. Ecology
 - iii. Natural resources
 - iv. Conservation
 - v. Pollution
- b) State and explain the sustainable ways of protecting natural resources (8 marks)
- c) Differentiate the two categories of natural resources, giving relevant examples (4 marks)
- d) Discuss the various types of pollution and their impacts on the ecosystem (8 marks)

SECTION B

- 2 a) Explain biodiversity crisis (2 marks)
- b) Discuss the various hazards to biodiversity (10 marks)
- c) Explain the importance of biodiversity on the ecology (8 marks)

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3. Human-wildlife conflict is a significant issue in areas where communities live close to wildlife reserves. Discuss strategies that could help mitigate human-wildlife conflict in a farming community located near a wildlife conservation area. Include both preventative measures and conflict resolution strategies. (20 marks)
- a) Define habitat restoration (2 marks)
 - b) Discuss the various habitat restoration techniques. (10 marks)
 - c) With relevant examples, explain the limitations to habitat restoration (8 marks)
- 4 a) Discuss the species conservation strategies (6 marks)
- b) Conservation strategies often need to be adapted for human-dominated landscapes, such as farmlands or urban areas. Suggest three ways conservation principles can be applied to an urban area to increase biodiversity, and explain how these measures would benefit both wildlife and the local population. (14 marks)
5. a) Discuss the major threats to biodiversity today. Provide examples of each threat and suggest appropriate conservation strategies to mitigate these threats. (10 marks)
- b. Explain the key ecological, economic, and cultural values of biodiversity. How do these values contribute to justifying conservation efforts at a global scale? (10 marks)
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