

CHUKA



UNIVERSITY

**UNIVERSITY EXAMINATIONS**

**EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF SCIENCE IN  
WILDLIFE AND ENTERPRISE MANAGEMENT**

**WIEM 102: INTRODUCTION TO EAST AFRICA FLORA AND FAUNA**

**STREAMS: BSC WIEM Y1S2**

**TIME: 2 HOURS**

**DAY/DATE: MONDAY 08/04/2024**

**11.30 A.M – 1.30 P.M.**

**INSTRUCTIONS:**

- Answer ALL questions in SECTION A and any TWO questions in SECTION B.
- Do NOT write anything on the question paper.

**SECTION A (30 MARKS)**

1. Give the name of the order to which each of the following animals belongs:
  - (a) Lizard
  - (b) Tortoise
  - (c) Thomson's gazelle
  - (d) Zebra
  - (e) Bat
  
2. During a trip to Tanzania, a student came across a plant and that he described using the following terms:
  - (a) Culm
  - (b) node
  - (c) Alternate phyllotaxy
  - (d) truncate leaf apex
  - (e) Zygomorphic flower

Explain the meaning of each of the terms (You may use diagrams): (5 marks)

3. Briefly explain four biotic factors that influence the diversity and distribution of biodiversity in East Africa. (4 marks)

4. Explain the relationship between vegetation, climate and fire in the East African Savanna. (6 marks)
5. Explain five precautionary guidelines to avoid being attacked by large carnivores found in East Africa. (5 marks)
6. Briefly explain five methods one can use to identify a new plant. (5 marks)

**SECTION B (40 MARKS)**

7. (a) Discuss the unique characteristics of Tropical rainforests. (8 marks)  
(b) Discuss the ecological functions of East African Flora. (12 marks)
  8. Discuss the African elephant (*Loxodonta Africana*) in terms of physical characteristics, feeding and the habitat, social behaviour and reproduction. (20 marks)
  9. Using relevant examples, discuss the factors that are causing species to be at risk of extinction. (20 marks)
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