

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

FIRST YEAR 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: TUESDAY 11/04/2023

11.30 A.M. – 1.30 P.M.

INSTRUCTIONS:

- Answer ALL questions in section A and any other TWO in section B
- Do not write anything on the question paper

SECTION A (30 MARKS)

1. Explain the meaning of the following terms using one example in each case
 - (a) Altricial young [1 mark]
 - (b) Monotremata [1 mark]
 - (c) Echolocation [1 mark]
 - (d) Parental investment [1 mark]
 - (e) Biodiversity [1 mark]
2. Explain five reasons why conservation of reptiles is important [5 marks]
3. With the aid of sketch diagrams, describe the following morphological characteristics of a given plant. [5 marks]
 - (a) Palmate leaf venation [1 mark]
 - (b) Apiculate leaf apex [1 mark]
 - (c) Actinomorphic flower [1 mark]
 - (d) Alternative phyllotaxy [1 mark]

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- (e) Ternately compound leaf [1 mark]
4. (a) Distinguish between a territory and a home range [2 marks]
- (b) Explain three main ways animals mark their territories [3 marks]
5. (a) Describe three challenges faced in plant taxonomy [3 marks]
- (b) Explain two adaptations of halophytes to survive in their habitats [2 marks]
6. Explain how the social behaviour of the African lion (*Panthera leo*) differs from that of a leopard (*Panthera pardus*) [5 marks]

SECTION B (40 MARKS)

7. (a) Using relevant examples, discuss strategies used by animals to avoid predators. [12 marks]
- (b) Using examples of animals found in East Africa, discuss the significance of animal ornamentation. [8 marks]
8. Discuss the ecological functions of East Africa Flora. [20 marks]
9. Discuss ways through which humans have influenced the distribution of plants and animals in East Africa. [20 marks]
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