

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

EXAMINATION FOR AWARD OF DEGREE IN AGED, ANIMAL SCIENCE, FOOD SCIENCE, WILDLIFE AND ENTERPRISE MGT, AGRICULTURE

ZOOL 100: GENERAL ZOOLOGY

STREAMS: BSC

TIME: 2 HOURS

DAY/DATE: THURSDAY 19/12/2024

11.30 A.M. – 1.30 P.M.

INSTRUCTIONS: Answer all questions in section A and any other TWO in section B

SECTION A (30 MARKS)

1. a) Describe three groups of mammals based on reproductive biology (3 marks)
b) Name two body forms of sponges (1 mark)
c) Describe ways by which the body of reptiles are better adapted to life on land than Amphibians (2 marks)
2. a) Discuss the classification of fish (3 marks)
b) Briefly describe the body morphology of a mollusc (3 marks)
3. a) State the animal phylum described by the following; (2 marks)
 - i) Bilaterally symmetrical, triploblastic
 - ii) Diploblastic, radial symmetry
b) Explain why Amphibians cannot survive fully on terrestrial ecosystems (2 marks)
c) Explain the function of the following tissues in animals;
 - i) Neural tissue (1 mark)
 - ii) Connective tissue (1 mark)
4. a) Describe the mechanism of locomotion in Arthropods (3 marks)
b) Explain the function of the following glands found in mammals; (3 marks)
 - i) Eccrine glands
 - ii) Apocrine glands
 - iii) Sebaceous glands
5. a. Identify three structures of locomotion in protozoans (3 marks)
b) Give the animal phyla to which the following organisms belong; (3 marks)
 - i) Earthworms
 - ii) Sea anemone
 - iii) Urchins

SECTION B (40 MARKS)

6. Describe in details the adaptive modifications of birds that have led to their success in terrestrial ecosystems (20 marks)
- 7a) Outline the distinguishing features of phylum Chordata (10 marks)
- b. Describe the types and functions of various cells found in sponges (10 marks)
- 8 a. Explain the mechanism of reproduction in protozoans (10 marks)
- b. Describe the adaptations of tapeworm to parasitic life (10 marks)
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