

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF SCIENCE  
(AGRICULTURAL EDUCATION AND EXTENSION)

ZOOL 100: GENERAL ZOOLOGY

STREAMS: B.Sc (AGED), (ENSC), (ANSC), (WIEM), (FOST), (NARE), (AGRIC) Y1S1

TIME: 2 HOURS

DAY/DATE: THURSDAY 7/12/2017

11.30 A.M - 1.30 P.M.

INSTRUCTIONS:

- Answer all Questions in Section A and any ONE question in Section B

SECTION A: [50 MARKS] - COMPULSORY

1. (a) Name three body forms of sponges. [3 Marks]  
(b) Give three differences between a polyp and medusa body forms of cnidaria. [3 Marks]
2. Distinguish between the following terms: -
  - (a) Protostome and deuterostome [2 Marks]
  - (b) Unicellular and cell aggregate [2 Marks]
  - (c) Cephalization and tagmatization [2 Marks]
3. (a) Describe three features that distinguish echinoderms from other animal groups. [3 Marks]  
(b) Describe groups of mammals based on their reproductive biology. [3 Marks]
4. (a) Explain why amphibians cannot survive fully in terrestrial ecosystems. [3 Marks]  
(b) Outline three evolutionary advances of platyhelminthes over cnidaria [3 Marks]
5. Name an animal phylum described by the following terms [5 Marks]
  - (a) Triploblastic and aceolomate
  - (b) Triploblastic and metameric
  - (c) Triploblastic and pseudoceolomate
  - (d) Diploblastic and radial symmetry
  - (e) Radiate coelomate
6. (a) Describe the adaptations of tapeworm to parasitic life. [5 Marks]  
(b) Outline the life cycle of a named nematode. [4 Marks]

**ZOOL 100**

7. Describe the types and functions of different type of cells found in sponges. [6 Marks]
8. (a) Name three sensory structures of annelids. [3 Marks]  
(b) Outline the general features of chordates. [3 Marks]

**SECTION B: [20 MARKS]**

9. Describe in details the classification of the phylum Arthropoda. [20 Marks]
10. (a) Differentiate between bony fish and cartilaginous fish. [10 Marks]  
(b) Describe the general characteristics of mollusca. [10 Marks]
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