

CHUKA UNIVERSITY

EXAMINATION FOR THE AWARD OF DEGREE OF AGED

ZOOL 100/104: GENERAL ZOOLOGY

RESIT EXAM

INSTRUCTIONS

Answer all questions in section A and two other questions in section B

SECTION A (30MKS)

- 1a) State the animal phyla described by the following (2mks)
 - i) Diploblastic, radial symmetry
 - ii) Metamerically segmented, bilaterally symmetrical
- b) Explain why Amphibians cannot survive fully on terrestrial ecosystem (2mks)
- c) Explain the functions of water vascular system in Echinoderms (2mks)
2. a) Discuss the classification of fish (3mks)
- b) Briefly describe the body morphology of a mollusc (3mks)
- 3a) Describe the process of excretion and osmoregulation in protozoans (3mks)
- b) Outline three distinguishing features of phylum Platyhelminthes (3mks)
4. a) Discuss ways by which the body of reptiles are better adapted to life on land than amphibians (3mks)
- b) Describe the mechanisms of locomotion in Arthropods (3mks)
5. a) Describe three groups of mammals based on reproductive biology (3mks)
- b) Discuss the three classes of Cnidarians (3mks)

SECTION B (40MKS)

6. Mammals have evolved special adaptations that have enabled them to conquer diverse kinds of habitats spanning the earth. Discuss this statement (20mks)
- 7a) Outline the distinguishing features of phylum Chordata (10mks)
- b) Explain the mechanisms of reproduction in protozoans (10mks)
- 8a) Describe the types and functions of various cells found in sponges (10mks)
- b) Describe the adaptive modification of birds that have led to their success in terrestrial ecosystems (10mks)

