

**CHUKA**



**UNIVERSITY**

**UNIVERSITY EXAMINATIONS**

**EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF SCIENCE IN AGRICULTURE EDUCATION, BACHELOR OF SCIENCE IN ENVIRONMENTAL SCIENCE, BACHELOR OF SCIENCE IN FOOD SCIENCE AND TECHNOLOGY AND BACHELOR OF SCIENCE IN NATURAL RESOURCE MANAGEMENT**

**ZOOL 100: GENERAL ZOOLOGY**

**STREAMS: BSC (ENVS), BSC (ENSC), BSC (FOST) & BSC (NARE) TIME: 2 HOURS**

**DAY/DATE: TUESDAY 03/12/2018**

**8.30 A.M. – 10.30 A.M.**

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**INSTRUCTIONS:**

- Answer all questions in section A and any two from section B

**SECTION A (30 MARKS)**

- Q1. Distinguish between the following terms
- (a) Diploblastic and triploblastic. (2 marks)
  - (b) Radial and bilateral symmetry. (2 marks)
  - (c) Cephalization and tagmatization. (2 marks)
- Q2. (a) Explain four ways in which annelids differ from arthropods. (4 marks)
- (b) Give two differences between a polyp and medusa body forms of cnidaria. (2 marks)
- Q3. (a) Explain three features that define echinoderms. (3 marks)
- (b) Give three structures that Platyhelminthes have over cnidarian. (3 marks)
- Q4. (a) State one feature that define each of the following classes of Mollusca. (3 marks)
- (i) Gastropoda
  - (ii) Pelecypoda
  - (iii) Cephalopoda

- (b) Give three differences between polychaeta and oligochaeta. (3 marks)
- Q5. (a) Describe cell aggregate body plan in sponges. (3 marks)
- (b) Outline three features of chordates. (3 marks)

**SECTION B (40 MARKS)**

- Q6. (a) Outline the general characteristics of nematodes. (10 marks)
- (b) Outline the life cycle of a tapeworm (Taenia Solium). (10 marks)
- Q7. (a) Differentiate between chelicerata and crustacea. (10 marks)
- (b) Describe the general classification of hexapoda. (10 marks)
- Q8. Elaborate on the classification of the phylum chordata. (20 marks)
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