

**CHUKA**



**UNIVERSITY**

## **UNIVERSITY EXAMINATIONS**

**EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF SCIENCE IN ECOTOURISM**

**ZOOL 100: GENERAL ZOOLOGY**

**STREAMS: BSC (ECOT)**

**TIME: 2 HOURS**

**DAY/DATE: TUESDAY 17/04/2018**

**8.30 A.M – 10.30 A.M**

**INSTRUCTION:**

- **Answer all question in section A and two question in section B**

### **SECTION A (30MARKS)**

1. (a) Give an animal phylum defined by each of the following: [4marks]
  - (i) Acoelomate bilateria
  - (ii) Radiate coelomate
  - (iii) Metameric coelomate
  - (iv) Pseudocoelomate bilateria

(b) List four advantages of body cavity. [2marks]
2. Describe cell aggregate body plan in sponges. [6marks]
3. (a) State four ways in which annelids differ from arthropods. [4marks]

(b) Give two differences between a polyp and medusa body forms of cridaria. [2marks]
4. (a) State one feature that define each of the following classes of mollusca. [3marks]
  - (i) Gastropoda
  - (ii) Pelecypoda

(iii) Cephalopoda

(b) Give three differences between polychaeta and oligochaeta. [3marks]

5. (a) Explain three features that define echinoderms. [3marks]

(b) Give three advances that platyhelminthes have over cnidaria. [3marks]

**SECTION B (40MARKS)**

6. Elaborate on the classification of the phylum chordata. [20marks]

7. (a) Differentiate between chelicerata and crustacea. [10marks]

(b) Describe the general classification of hexapoda. [10marks]

8. (a) Describe adaptations of tapeworm to parasitic mode of life. [10marks]

(b) Outline the life cycle of *Ascaris* spp. [10marks]

