JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE & TECHNOLOGY

SCHOOL OF BIOLOGICAL AND PHYSICAL SCIENCES

UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF EDUCTION SCIENCE WITH IT

1ST YEAR 1ST SEMESTER 2016/2017 ACADEMIC YEAR

MAIN CAMPUS - REGULAR

COURSE CODE: SZL 101

COURSE TITLE: INVERTEBRATE ZOOLOGY

EXAM VENUE: LAB 3 **STREAM: (BED)**

DATE: 27/04/16 **EXAM SESSION: 9.00 – 11.00 AM**

TIME: 2 HOURS

Instructions:

1. **Answer ALL questions in Section A and Any two questions in Section B**
2. **Candidates are advised not to write on question paper**
3. **Candidates must hand in their answer booklets to the invigilator while in the examination room**

SECTION A: ANSWER ALL QUESTIONS (30 MARKS)

1. List three main features of the Phylum Mollusca. (3 marks)
2. Briefly explain the functions of nephridium, ctenidia, and circular muscle. (3 marks)
3. List the classes of Phylum Annelida. (3 marks)
4. State the phylum in which each of the following belongs to. (3 marks)

    a.Sea anemones
    b.*Nereis*
    c.Lobsters

5. Give examples of the class Bivalvia. (3 marks)
6. Explain the distinguishing features of the Class Gastropoda. (3 marks)
7. Describe characteristics of Phylum Echinodermata. (3 marks)
8. Differentiate between Bilateral symmetry and Radial symmetry. (3 marks)
9. With examples explain the terms: Acoelomates and Coelomates. (3 marks)
10. Explain what a nematocyst is and state in which organisms it is found. (3 marks)

SECTION B: ANWER ANY TWO QUESTIONS (40 MARKS)

11. Describe the four classes of the Phylum Cnidaria. (20 marks)
12. (a) Explain the economic importance of the Class Insecta. (10 marks)

    (b) Describe the feeding process of Molluscs. (10 marks)
13. Describe the life cycle of a named Platylminthes (20 marks)
14. Describe the process of reproduction in Protozoans (20 marks)