



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE & TECHNOLOGY
SCHOOL OF BIOLOGICAL AND PHYSICAL SCIENCES
UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE
(BIOLOGICAL SCIENCES)
1ST YEAR 1ST SEMESTER 2016/2017 ACADEMIC YEAR
MAIN CAMPUS - REGULAR

COURSE CODE: SBI 3112

COURSE TITLE: INVERTEBRATE ZOOLOGY

EXAM VENUE: LAB 3

STREAM: (BIO)

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**
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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 belong. (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: ANSWER 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 Platyminthes (20 marks)
14. Describe the process of reproduction in Protozoans (20 marks)