



THE CATHOLIC UNIVERSITY OF EASTERN AFRICA

A. M. E. C. E. A

P.O. Box 62157
00200 Nairobi - KENYA
Telephone: 891601-6
Fax: 254-20-891084
E-mail: academics@cuea.edu

MAIN EXAMINATION

JANUARY – APRIL 2017 TRIMESTER

FACULTY OF SCIENCE

DEPARTMENT OF BIOLOGY

SCHOOL FOCUSED PROGRAMME

BIO 201: INVERTEBRATE BIOLOGY

Date: April 2017

Duration: 2 Hours

INSTRUCTIONS: Answer Question ONE and any other TWO Questions

- Q1. a) Briefly explain the importance of invertebrates in the following areas:
- a) Medicine
 - b) Basic research **2 marks**
- b) Explain **two** unique features of the phylum cnidaria **2 marks**
- c) List one characteristics unique to the following animal phyla:
- i) Echinodermata
 - ii) Nematoda
 - iii) Ctenophora
 - iv) Gnathostomula **4 marks**
- d) How are the ctenophorans related to cnidarians? **4 marks**
- e) Differentiate between the following terms:
- i) sessile and sedentary animals **1 mark**
 - ii) polyp and medusa **3 marks**
 - iii) arthropods and mollusks **4 marks**
- f) List **four** advantages of the marine environment. **4 marks**
- g) Explain three traits used to classify invertebrates. **6 marks**
- Q2. Describe the life cycle of a named sporozoan. **20 marks**
- Q3. Explain the classification and general characteristic of the annelids. **20 marks**
- Q4. Compare and contrast arthropods and echinoderms. **20 marks**

- Q5. Using relevant examples outline the roles of invertebrates in ecology, basic research and medicine. **20 marks**

END