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

AUGUST - DECEMBER 2018 TRIMESTER

FACULTY OF SCIENCE

DEPARTMENT OF BIOLOGY

REGULAR PROGRAMME

BIO 201: INVERTEBRATE BIOLOGY

Date: DECEMBER 2018 **Duration: 2 Hours INSTRUCTIONS:** Answer Question ONE and any other TWO Questions Q1. a) i) Explain the modes of locomotion in molluscs (3 marks) ii) Outline economic importance of hirudinae (2 marks) iii) Explain the reproductive mechanisms of the poriferans (5 marks) b) i) Outline the role of parapodia in polychaetes (2 marks) ii) Differentiate between polypoid and medusoid (4 marks) iii) Describe the feeding process in sponges (4 marks) i) Outline the general characteristics of the phylum Ciliophora c) (2 marks) ii) Explain the process of gas exchange in echinoderms (2 marks) iii) Distinguish between the class Insect and class Myriapoda. (3 marks) d) Outline the functions of the following cells: (3 marks) i) Nematocyts ii) Colloblasts iii) Amebocytes

Q2.	Give a detailed account of the physiology of Protozoans	(20 marks)
Q3.	Discuss the reproductive mechanisms of the platyhelminthes.	(20 marks)
Q4.	Discuss in details the Salient features of invertebrates	(20 marks)
Q5.	Write an essay on the economic importance of nematodes	(20 marks)
	END	