

# THE CATHOLIC UNIVERSITY OF EASTERN AFRICA

# A. M. E. C. E. A

MAIN EXAMINATION

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## JANUARY – APRIL 2015 TRIMESTER

#### FACULTY OF SCIENCE

### DEPARTMENT OF NATURAL SCIENCES (BIOLOGY)

#### SCHOOL FOCUSED PROGRAMME

#### **BIO 201: INVERTEBRATE BIOLOGY**

Date:	Apri	l 2015	Di	uration: 2 Hours		
Instructions: Answer Question ONE and any other TWO Questions.						
Q1.	a)	i)	Explain the importance of invertebrates in a	griculture. <b>(2 marks)</b>		
		ii)	Briefly describe the ecological aspects used invertebrates.	to classify		
		:::)	Differentiate between Develop and Furnets	(3 marks)		
		iii)	Differentiate between Parazoa and Eumeta	20a. (2 marks)		
		iv)	State the economic importance of molluscs			
		V)	Explain two morphological types of sponges	(2 marks)		
		,		(2 marks)		
	b)	State (i)	one major difference between the following: Ceolomate and Pseudocoelomate	-		
		ii)	Protostome and Deuterostome			
		iii)	Diploblastic and Tribloblastic Determinate and indeterminate cell state.			
		iv)	Determinate and indeterminate cell state.	(4 marks)		
	c) Outline		e the major similarities between cnidarians a	nd ctenephores.		
	d)	i)	Differentiate between hydrozoans and syph	(4 marks) ozoans.		
				(2 marks)		
		ii)	Explain the derived characteristics of cnidar	ians. (4 marks)		
		iii)	Describe the characteristics of a named class	· · · ·		
Q2.	Lleina rol	rolovor	examples illustrate the phylogeny of inverted	(5 marks)		
QZ.	USING		ni examples illustrate the phylogeny of inven	(20 marks)		

CUEA/ACD/EXM/JANUARY – APRIL 2015/SCIENCE (Biology)

### ISO 9001:2008 Certified by the Kenya Bureau of Standards

Q3.	Explain the features that allow arthropods colonize terrestrial environ	iments. (20 marks)
Q4.	Describe the derived characteristics exhibited by echinoderms.	(20 marks)
Q5.	Compare and contrast nematodes and annelids.	(20 marks)

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