

OFFICE OF THE DEPUTY PRINCIPAL ACADEMICS, STUDENT AFFAIRS AND RESEARCH

UNIVERSITY EXAMINATIONS 2017/2018 ACADEMIC YEAR

FIRST YEAR SECOND SEMESTER REGULAR EXAMINATION



FOR THE DEGREE OF BACHELOR OF EDUCATION (SCIENCE)

COURSE CODE:

ZOO 102E

COURSE TITLE:

INVETERBRATE ZOOLOGY

DATE: 20TH APRIL, 2018

TIME: 9.00 AM - 12.00 NOON

INSTRUCTIONS TO CANDIDATES

SEE INSIDE

THIS PAPER CONSISTS OF 3 PRINTED PAGES

PLEASE TURN OVER

ZOO 102E

ZOO 102E: INVETERBRATE ZOOLOGY

STREAM. DED (Science)	DURATION: 3 Hours
INSTRUCTIONS TO CANDIDATES	n antinu D
i. Answer ALL questions from section A and any THREE from	
ii. Diagrams should be used whenever they serve to illustrate to	he answer.
iii. Do not write on the question paper.	
SECTION A (24 MARKS)	
The second secon	
Question One	11.11-t-u-1 animal hadre
a) Using illustrations differentiate between asymmetrical, radial and	
symmetry.	(3Marks)
b) Describe four important determinants of multicellular body plan	as. (4 Marks)
c). Differentiate between metamerism and tagmosis.	(2 Marks)
d). Compare and contrast the distinguishing features between Class	Polychaeta, Class
Oligochaeta and Class Hirudinea	(4 Marks)
e). What is the meaning of the term metameric segmentation?	(1 Mark)
Question Two	
a). List four characteristic features that define the phylum Cnidaria.	(4 Marks)
b). State the nomenclature codes that govern scientific names.	(4 Marks)
c). Using relevant examples, define radial and bilateral symmetry of the animal kingdom.	
	(4 Marks)

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SECTION B (36 MARKS)

Question Three

a). Explain why insects that have undergone adaptive radiations are regarded as successful.

(2 Marks)

b). Explain the diverse cleavage patterns in animals.

(10 Marks)

Question Four

a). Describe the structural and functional composition of nematocysts.

(2 Marks)

b). Members of the Phylum Arthropoda are the most successful living organisms on earth.

Discuss.

(10 Marks)

Question Five

a) Explain the advantages of the exoskeleton in arthropods

(6 Marks)

b) Tabulate six characteristic features of class Gastropoda, class Pelycopoda and class Cephalopoda in phylum Mollusca. (6 Marks)

Question Six

a). Discuss the stages of development between fertilization and hatching in animals.

(10 Marks)

b). Highlight four general characteristics of the phylum Porifera.

(2 Marks)

Question Seven

Describe the characteristic features of the following classes:-

a). Class Hydrozoa

(4 Marks)

b). Class Scyphozoa

(4 Marks)

c). Class Anthozoa

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(4 Marks)
