



OFFICE OF THE DEPUTY PRINCIPAL  
ACADEMICS, STUDENT AFFAIRS AND RESEARCH

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## UNIVERSITY EXAMINATIONS

### 2018 /2019 ACADEMIC YEAR

FIRST YEAR SECOND SEMESTER REGULAR EXAMINATION

FOR THE DEGREE OF BACHELOR OF  
EDUCATION (SCIENCE)

COURSE CODE: ZOO 102E

COURSE TITLE: INVERTEBRATE ZOOLOGY

DATE: 17<sup>TH</sup> APRIL, 2019

TIME: 9.00 AM – 12.00 PM

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### INSTRUCTIONS TO CANDIDATES

- SEE INSIDE

THIS PAPER CONSISTS OF 3 PRINTED PAGES

PLEASE TURN OVER

**ZOO 102E: INVERTEBRATE ZOOLOGY**

**STREAM: BED (SCIENCE)**

**DURATION: 3 Hours**

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**INSTRUCTIONS TO CANDIDATES**

- i. Answer **ALL** questions from section A and any **THREE** from section B.
  - ii. Diagrams should be used whenever they serve to illustrate the answer.
  - iii. Do not write on the question paper.
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**SECTION A (24 MARKS)**

**Question one**

- a) Explain the challenges of using morphology in biological classification (5 Marks)
- b) Explain the reproductive process in annelids (5 Marks)
- c) Highlight two types of symmetry observed in animals (2 Marks)

**Question Two**

- a) Describe the following morphologies
  - i) Acoelomate (2 Marks)
  - ii) Pseudocoelomate (2 Marks)
  - iii) Coelomate (2 Marks)
- b) i) Give an illustration of a named Poriferan. (5 Marks)
- ii) Highlight one relationship between Annelids and Platyhelminthes (1 Mark)

**SECTION B (36 MARKS)**

**Question Three**

Discuss the structure and feeding in snails (12 Marks)

**Question Four**

Give a detailed account for success in insects (12 Marks)

**Question Five**

- a) Discuss the defense mechanisms in members of Phylum Cnidaria (5 Marks)
- b) Outline the distinguishing characteristics of Class Hydrozoa (5 Marks)
- c) Name the distinct forms of Cnidarians (2 Marks)

**Question Six**

- a) Describe the life cycle of Genus Schistosoma (5 Marks)
- b) Explain how nematodes respond to stimuli in their in their environment (5 Marks)
- c) Name the excretory organs in
  - i) Annelids (1 Mark)
  - ii) Platyhelminthes (1 Mark)

**Question Seven**

Discuss the economic importance of arthropods (12 Marks)

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