



**EDO UNIVERSITY, IYAMHO, EDO STATE**  
**FACULTY OF SCIENCE**  
**DEPARTMENT OF BIOLOGICAL SCIENCES**  
**(ANIMAL AND ENVIRONMENTAL BIOLOGY)**  
**FIRST SEMESTER EXAMINATION, 2016/17 SESSION**

COURSE TITLE: INVERTEBRATES AND THEIR ENVIRONMENT

COURSE CODE: AEB 211

TIME ALLOWED: 3HOURS.

INSTRUCTION: Answer all the questions in section **A & B** and choose one question each from each of the other sections.

Date: 12<sup>TH</sup> MAY, 2017.

**SECTION A**

- (1). State the 5 basic characteristics of the phylum Arthropoda **OR**
- (2). State the differences between Chilopods and Diplopods. (5marks).
- (3). During a practical class, some specimens were displayed labeled A, B and C. Specimen A has smooth body, can undergo molting and thrashing movement while specimen B has segmented body, do not undergo molting and moves either by crawling or swimming. Lastly, specimen C can regenerate lost part and has tube feet for movement.
  - (a) Identify specimens A, B and C. (3marks).
  - (b) State two characteristics of specimen B apart from the ones mentioned in the question above. (1mark).
  - (c) State two classes of specimen C. (1mark).

**SECTION B**

- (1). State the ecology of arthropods and mollusc (4marks).
- (2). Give the diversity of the phylum Arthropoda (5marks).
- (3). State the economic importance and detrimental effects of arthropods (6marks).
- (4). What is torsion? Give the class of organisms that undergo such effects with a named example (5marks).

**SECTION C**

- (5a). Give 10 general characteristics of the Protozoans (10marks)
- (5b). Give 5 Medicinal and veterinary importance of protozoan (10marks)
- (6a). With example in each give the different phyla under Protozoa (8marks)
- (6b). Discuss one of the following in detail Discuss the characteristics of one of the following with examples: (i) Sarcodina. (ii) Mastigophora (iii) Ciliophora and (iv) Sporozoa.(12marks).

**SECTION D.**

- (7). Write on the biology of a named Nematode or Annelid.(20 marks).
- (8a). State the five classes of the Phylum Echinodermata (5marks).
- (8b). Write extensively on the characteristics of each of the classes (15marks).