



**ELIZADE UNIVERSITY,  
ILARA-MOKIN, NIGERIA**

**FACULTY: BASIC & APPLIED SCIENCES**

**DEPARTMENT: BIOLOGICAL SCIENCES**

**FIRST SEMESTER EXAMINATION**

**2017/2018 ACADEMIC SESSION**

**COURSE CODE: BIO 207**

**COURSE TITLE: LOWER INVERTEBRATE**

**DURATION: 2 HOURS**

**HOD's SIGNATURE**

**NAME:.....**

**MAT. No:.....**

**INSTRUCTIONS**

**Answer question 1 and any other two (2) questions.**

## SECTION A

1. (a) Define the following:

- i. Classification
- ii. Taxonomy

(b) i. Name the two main types of classification.

ii. Into how many groups are the invertebrates classified based on their cellular composition and organization? Name them.

(c) Copy and complete the following table:

Organism	Phylum	Class	Body symmetry	Habitat	One unique feature of the Phylum
<i>Hydra</i>					
<i>Sponges</i>					
<i>Tapeworm</i>					
<i>Ascaris</i>					

## SECTION B

1 (a) Briefly describe the life cycle of sponge

(b) (i) Describe **parthenogenetic** reproduction.

(ii) Mention two attributes that are unique to class Cephalopoda but rarely found in other mollusks

(c) (i) Differentiate between **monoecious** and **dioecious**.

ii) Mention two (2) classes of Rotifera

2 (a) (i) Why is rotifer considered as 'wheel-bearer'?

(ii) The phylum Annelida is divided into three classes, name them.

(iii) Which of the classes named above has a member used in medical treatment?

(b) List four (4) order under the class Insecta with an example each.

3 (a) State two differences and two similarities between the centipede and the millipede

(b) What is Ametabolism?

(c) (i) Distinguish between Holometabolism and Hemimetabolism

(ii) Give two example of insects that undergo Holometabolism.