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.

ECTION 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
Hydra					
Sponges					
Tapeworm					
Ascaris					

ECTION 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.