



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

**FACULTY: BASIC & APPLIED SCIENCES**

**DEPARTMENT: BIOLOGICAL SCIENCES**

**FIRST SEMESTER EXAMINATION**

**2018/2019 ACADEMIC SESSION**

**COURSE CODE: BIO 207**

**COURSE TITLE: LOWER INVERTEBRATES**

**DURATION: 2 HOURS**

**HOD's SIGNATURE**

**NAME:.....**

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

**INSTRUCTION: ANSWER ALL QUESTIONS IN SECTION A AND THREE QUESTIONS IN SECTION B**

## SECTION A

1. Invertebrates are (a) animals with vertebral columns (b) acoelomates (c) deuterostomes (d) animals without backbones
2. Radial symmetry is characteristic of (a) protosomes (b) acoelomates (c) deuterostomes (d) Cnidarian
3. The germ layer that gives rise to the outer covering of the body and the nervous system is the (a) gastrodermis (b) ectoderm (c) Contractile layer (d) endoderm
4. Collar cells are characteristic of phylum (a) Porifera (b) Cnidaria (c) Platyhelminthes (d) Ctenophora
5. Tapeworms are classified in phylum (a) Porifera (b) Cnidaria (c) Platyhelminthes (d) Ctenophora
6. Which of the following is not a nematode? (a) hookworm (b) trichina (c) Ascaris (d) Leech
7. Torsion in mollusk (a) is characteristic of bivalves (b) is a twisting of the visceral mass (c) involves coiling of the molluscan shell (d) begins in the adult stage
8. Which of the following belong to subphylum Uniramia? (a) insects (b) polychaetes (c) crustaceans (d) nudibranchs
9. Biramous appendages are characteristic of (a) crustaceans (b) Insects (c) centipedes (d) millipedes
10. Spiders are likely to have (a) mandibles and maxillae (b) six pairs of legs on the abdomen (c) one pair of antennae (d) chelicerae and pedipalps

## SECTION B

1. (a) Describe five adaptations that have contributed to insect success  
(b) Mention the economic importance of protozoan
2. Give two distinguishing characteristics for each of the following:  
(a) Mollusks  
(b) Round worms  
(c) Annelids
3. (a) Distinguish between insects and arachnids  
(b) Distinguish between Chilopoda and Diplopoda
4. (a) How does the body plan of flatworms differ from that of Cnidarian?  
(b) Give the economic importance of earthworm
5. (a) Describe the life cycle of *Ascaris Sp*  
(b) Mention the economic importance of Phylum *Porifera*