# BONDO UNIVERSITY COLLEGE
# UNIVERSITY EXAMINATIONS 2012/2013
# FIRST YEAR FIRST SEMESTER EXAMINATIONS FOR DIPLOMA IN COMMUNITY HEALTH AND DEVELOPMENT

## BUC

**COURSE CODE: HCD 2114**
**TITLE: INVERTEBRATES OF MEDICAL AND VETERINARY IMPORTANCE**
**DATE: 14/12/2012 TIME: 8.00-10.00AM**
**DURATION: 1.5 HOURS**

**INSTRUCTIONS**

1. **This paper contains TWO sections**
2. **Answer ALL questions in section A (Compulsory) and ANY other Two questions form section B**
3. **Write all answers in the booklet provided**

**SECTION A: answer ALL questions in this section (3 Marks each).**

1. Why are the Platyhelminthes referred to as the most primitive of the bilaterans?
2. List six parasitic protozoa and the disease they each transmit.
3. Giving examples, differentiate between ectoparasites and endoparasite
4. Most nematodes are dioecious. What does this mean?
5. List the various ways that have been used in the eradication of Ascaris.
6. (a) State the mode of infection of leishmaniasis
   (b) Classify Leishmaniasis by disease manifestation
7. Name 6 different stages in the life cycle of the blood fluke *Schistosoma haematobium* and the host in which they occur
8. Outline the measures used to prevent and control malaria.
9. Large-scale campaigns for control of houseflies are often unworkable for both financial and practical reasons, as well as being potentially damaging to the environment. For these reasons, attention has shifted to methods that can be applied by individuals and communities. List six methods that an individual can use in the control of houseflies.
10. Briefly describe the role of vectors in transmission of diseases.

**SECTION B**

**Answer any TWO questions from this section (15 marks each)**

1. Discuss the various mechanisms by which parasites have adapted to evade the host immune system.
2. Describe the existing and novel approaches for the control of vector-borne diseases
3. (a) Describe the general characteristics of the phylum Arthropoda (5 marks).
   (b) What is the economic importance of the arthropods of class insecta? (10 marks)
4. Explain the control measures against parasitic amoeba and intestinal flagellates.