## UNIVERSITY EXAMINATION

## COURSE CODE HDC 2114: INTRODUCTION TO MEDICAL PARASITOLOGY AND ENTOMOLOGY.

Answer ALL questions in Section A and ANY TWO questions in Section B.

## SECTION A (30 marks)

- 1.) Define the following terms
  - A) A vector
  - B) Endoparasite
  - C) Obligate parasite (3 marks)
- 2.) Give an example of one parasite that is transmitted by the following routes
  - A) Oral faecal
  - B) Sexual contact
  - C) Blood transfusion (3 marks).
- 3.) Give an example of parasitic protozoa that move by the following means
  - a. Extension of pseudopod
  - b. Flagellum
  - c. Cilia (3 marks)
- 4. Name one important difference that is used to classify human parasitic organisms into 2 sub-kingdoms: protozoa and metazoa (**3 marks**).
- 5. Name one arthropod of medical importance that is found in the class Arachnida and the disease they transmit to both humans and animals (3 marks).
- 6. Name important features that are used to distinguish the class Insecta from the class Arachnida in the phylum Arthropoda (**3 marks**).
- 7. Name one viral disease that is transmitted by the *Aedes* mosquitoes (3 marks).
- 8. Name one arthropod vector that spends most of its larval stage in the mothers' uterus (3 marks).
- 9. Name the infective stage in Schistomiasis that is transmitted to humans by snails *Bulinus* sps (3 marks).
- 10. Describe one important method that is used to treat scabies mites (Sarcoptes sps) (3 marks)

## **SECTION 2. ANSWER ANY TWO QUESTIONS (30 marks)**

- 1. Describe reproduction mechanisms in protozoa (15 Marks).
- 2. Describe the mode of transmission of the following parasites
  - a. Plasmodium falciparum
  - b. Gerdia lamblia
  - c. Trigomonas vaginalis (15 Marks).
- **3.** Describe two physical and chemical methods that are used to control the following arthropod vectors.
  - a. Common house flies (Musca domestica).
  - b. Common house Cockroaches (Periplaneta, Blatta and Blattella sps) (15 Marks).
- **4.** Describe the life cycle and medical importance of any one of the following insects: (a). Tsetseflies (*Glossina* sps) (b) The human body louse (*Pediculus humanus humanus*) (c) Fleas (*Xenopsylla cheopis* or *Tunga penetrans*) (**15 Marks**).