



**JARAMOGI OGINGA ODINGA UNIVERSITY  
OF SCIENCE & TECHNOLOGY**

**UNIVERSITY EXAMINATIONS 2012/2013**

**1<sup>ST</sup> YEAR 1<sup>ST</sup> SEMESTER EXAMINATION FOR THE DIPLOMA  
IN COMMUNITY HEALTH AND DEVELOPMENT**

**(BUSIA LEARNING CENTRE)**

**COURSE CODE: HDC 2114**

**COURSE TITLE: INTRODUCTION TO MEDICAL ENTOMOLOGY AND  
PARISTOLOGY**

**DATE:13/8/2013**

**TIME: 9.00-10.30 PM**

**DURATION: 1.30 HOURS**

**INSTRUCTIONS**

- 1. This paper consists of two sections A and B.**
- 2. Answer Question 1 (Compulsory) and any other 2 questions.**
- 3. Write your answers on the answer booklet provided.**

1. Define the following terms
  - a) Vector.
  - b) Host.
  - c) Obligate parasites. (3 marks)
  
2. The phylum Arthropoda consists of four classes. List three of the classes that are found in this phylum. (3 marks)
  
3. List at least **three** benefits and three harmful effects of insects to man. (3 marks)
  
4. Define the term Metamorphosis. Name **two** insects that undergo complete metamorphosis. (3 marks)
  
5. Protozoa are single cell organisms that contain important parasites of humans. There are six phyla of protozoa that contain parasites of medical importance. Name at least **three** of the phyla. (3 marks)
  
6. An insects' body is divided into three parts. List their names and name at least **one** appendage that is found on each division. (3 marks)
  
7. Describe **two** basic differences that are used to differentiate Ticks from insects. (3 marks)
  
8. Malaria is a vector born disease that is transmitted from person to person by vectors. Name the genus of the **parasite** that causes malaria. Name the **definitive** and **intermediate** hosts of the malaria parasite. (3 marks)
  
9. Name the definitive and alternative hosts of the following parasite: *Taenia solium* and *Taenia saginata*. (3 marks)
  
10. Name at least **one** disease that is transmitted by the following vectors: Hard ticks, soft Ticks and subcutaneous tissue Mites. (3 marks)

**SECTION B. ANSWER ANY TWO QUESTIONS (30Marks)**

1. Describe **ANY** one of the following diseases. Giardiasis **OR** Trichomoniasis. What is the etiological agent and mode of transmission? Describe prevention method and treatment. **(15 marks)**
  
2. Reproduction in insects and mites can occur in a wide variety of forms. Describe the following forms of reproduction in insects and mites.
  - a) Sexual reproduction. **(5 marks)**
  - b) Parthenogenesis. **(5 marks)**
  - c) Viviparity. **(5 marks)**
  
3. Describe the medical importance of the following insects.
  - a) Houseflies *Musca domestica*. **(5 marks)**
  - b) Tsetseflies *Glossina* *sps.* **(5 marks)**
  - c) Cockroaches. **(5 marks)**
  
4. Define Schistosomiasis. What are the causal agents of these infections in humans. State mode of transmission and prevention for Schistosomiasis. **(15 marks)**