

## JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY

#### SCHOOL OF HEALTH SCIENCES

# UNIVERSITY EXAMINATION FOR THE CERTIFICATE IN COMMUNITY HEALTH AND DEVELOPMENT

### 1<sup>st</sup> YEAR 1<sup>ST</sup> SEMESTER 2018/2019 ACADEMIC YEAR

#### KISUMU LEARNING CENTRE

**COURSE CODE: HCD 1112** 

COURSE TITLE: INTRODUCTION TO INVERTEBRATES OF MEDICAL

**IMPORTANCE** 

EXAM VENUE: STREAM: CERTIFICATE

DATE: 23/4/19 EXAM SESSION: 12.00 – 1.30PM

TIME: 1½ HOURS

### **Instructions:**

- 1. Answer all questions in section A and any other 2 questions in Section B.
- 2. Candidates are advised not to write on the question paper
- 3. Candidates must hand in their answer booklets to the invigilator while in the examination room

#### SECTION A: ANSWER ALL THE QUESTIONS IN THIS SECTION (30 MKS)

- 1. Identify the infective stage of the following parasites;
  - a) Leishmania donovani
  - b) Plasmodium falciparum
  - c) Giardia intestinalis (3mks)
- 2. State any two types of life cycle (2 mks)
- 3. Name three specimens used in diagnosis of parasites (3 mks)
- 4. Name three routes used by the parasite to get into the body of the host (3 mks)
- 5. Define symbiosis and state and explain two types of such relationship (4mks)
- 6. State three major stages in the life cycle of nematodes (3 mks)
- 7. State three characteristics of cestodes (3 mks)
- 8. State three morphological characteristics of arthropods (3 mks)
- 9. State on one medical importance of cockroaches (1 mk)
- 10. State the medical importance of flies (3 mks)
- 11. State two characteristics of *Plamodium falciparum* (2 mks)

#### SECTION B: ANSWER ANY TWO QUESTIONS IN THIS SECTION (40 MKS)

- 1. a) Describe the mode of transmission, morphology, site of infection, life cycle, treatment and control of infections by *Entamoeba histolytica* (15 mks)
  - b) Discuss on the methods of reducing infections by Schistosoma mansoni (5 mks)
- 2. a) Describe the life cycle, epidemiology treatment of infection by *Trypanosoma brucei* (10 mks)
  - b) Identify at least five vector borne diseases together with their respective vectors and parasites (10 mks)
- 3. a) Discuss on any five association between organisms in ecology (10 mks)
  - b) List and explain some of the five adaptations of the invertebrates that has ensured their survival in the environment (10 marks)
- 4. Discus on the different type of parasites and hosts (20 mks)