

JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY SCHOOL OF HEALTH SCIENCES

UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN PUBLIC & COMMUNITY HEALTH

2ND YEAR 2ND SEMESTER 2016/2017

KISUMU LEARNING CENTRE

COURSE CODE: HCD 3227

COURSE TITLE: MEDICAL PARASITOLOGY AND ENTOMOLOGY

EXAM VENUE:

STREAM:

DATE:

EXAM SESSION

TIME: 2 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 (30mks)

- 1. State the differences between insects and arachnids (4mks)
- 2. Compare and contrast between *Wuchereria bancrofti* and *plasmodium falciparum* (4 mks)
- 3. State three ways of preventing infection with *Taenia saginata* (3 mks)
- 4. Briefly explain four types of symbiotic relationships (4mks)
- 5. State two differences between biological vectors and mechanical vectors (4 mks)
- 6. Briefly discuss on the direct and indirect mode of transmission (4 mks)
- 7. State three features that accounts for the high prevalence of Ascaris lumbricoides (3mks)
- 8. Briefly describe the life cycle of *Plasmodium falciparum* in humans (4mks)

SECTION B

ANSWER ANY TWO QUESTIONS FROM THIS SECTION (40 MKS)

- a) Briefly explain the mechanisms used by parasites that allows them to avoid recognition by the immune competent host (10mks)
 - b) Describe morphology, life cycle, pathogenecity of Entameba Histolytica (10mks)
- 2. Compare and contrast hookworm disease and *Echinococcus granulosus* in terms of etiology, risk factors, control and prevention measures (15 mks)
 - b) Compare and contrast the life cycle of Culex and Anophelene mosquito (5 mks)
- 3. a) Describe the epidemiology, life cycle, treatment, prevention and control of *Fasciola hepatica* (15 mks)
 - b) State the adaptations of Fasciola hepatica to parasitism (5 mks)
- 4. a) Discuss on integrated vector management (16 mks)b) Explain 4 barriers to malaria control (4 mks)