

JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY
BSC COMMUNITY HEALTH AND PUBLIC HEALTH (YEAR 3 SEMESTER 2 AND YEAR 2 SEMESTER 2)
SEMESTER EXAMINATION, APRIL 2014
HCD 3227: MEDICAL AND VETERINARY PARASITOLOGY

KISII LEARNING CENTRE

TIME: TWO (2) HOUR

Answer all questions in section A

SECTION A

1. Name three (3) human parasitic nematodes (3 marks)
- 2.) a) Name one (1) human luminal flagellate parasite (1 mark)
b) Name one (1) human hemoflagellate parasite (1 mark)
c) Name one (1) human genital flagellate parasite (1 mark)
- 3.) Name three (3) veterinary protozoan parasites
- 4.) Briefly explain the following forms of symbiosis (3Marks);
 - a) Parasitism
 - b) Commensalism
 - c) Mutualism
- 5.) Name three (3) zoonotic parasitic diseases (3 marks)
- 6.) With reference to parasitism, briefly explain with appropriate example in each case, the meaning of the following terms (3marks);
 - a) Obligate parasite
 - b) Natural host
 - c) Endoparasites
7. a) Name three (3) direct effects of parasites on their hosts (3 marks)
- 8.) Match the following pathological conditions with a possible predilection site in the Bovine anatomy (3 marks);
 - a) Hydatid cyst
 - b) Nodular worm (Pimply gut)

c) Fasciola hepatica

9.) a) Name three (3) parasitic arthropods in animals (1.5 marks)

b) List three (3) effects of parasitic arthropods in the animal hosts (1.5 marks)

10.) Name three (3) morphological features found in the trophozoite stage of *Giardia lamblia* (3marks)

SECTION B

Answer any two questions in this section

1.) Briefly discuss Urinary Schistosomiasis under the following sub-headings:

- a) Symptoms and lesions (5 marks)
- b) Samples for laboratory diagnosis (5 marks)
- c) Prevention (5 marks)
- d) Infection (transmission) to man (5 marks)

2.) Briefly discuss Trichinosis (Trichinellosis) under the following sub-headings:

- a) Aetiology (5 marks)
- b) Mode of transmission to human beings (5 marks)
- c) Clinical symptoms in human (5 marks)
- d) Control in humans (5 marks)

3.) a) Briefly discuss factor (s) of evolution of parasitism (5 marks)

b) Briefly explain host parasite relationship under the following sub-heading:

- i) Carrier state (5 marks)
- ii) Disease state (5 marks)
- iii) Parasite destruction (5 marks)

4. a) State five (5) measures for the control of *Taenia solium* (pig tapeworm) in both human and pigs (10 marks).

b) Briefly discuss *Taenia saginata* (bovine tape worm) under the following sub-headings

- i. Transmission to the final host (3 marks)
- ii. Life cycle (5 marks)
- iii. Intermediate host (2 marks)