

# **MACHAKOS UNIVERSITY**

University Examinations 2018/2019
SCHOOL OF PURE AND APPLIED SCIENCES
DEPARTMENT OF BIOLOGICAL SCIENCES
FIRST YEAR SECOND SEMESTER EXAMINATION FOR
BACHELOR OF SCIENCE IN BIOLOGY
SZL 406: MEDICAL HELMINTHOLOGY

DATE: 8/5/2019 TIME: 11.00-1.00 PM

#### **INSTRUCTIONS**

- 1. Answer Question 1 (compulsory) and any other two questions
- 2. Use clean well labelled diagrams wherever appropriate.

# **QUESTION ONE (COMPULSORY) (30 MARKS)**

| a) | Describe briefly and explain 'Tapeworm appetite'.                                | (3 marks)        |
|----|--|------------------|
| b) | Describe briefly how infection to man by Dipyridium caninum occurs               | (3 marks)        |
| c) | Explain any three methods of prevention of infection by Schistosoma haemato.     | bium.            |
|    |  | (3 marks)        |
| d) | Explain why Hydatidosis is considered as Zoonotic.                               | (3 marks)        |
| e) | Explain the complications that are likely to arise following a heavy infestation | by <i>Taenia</i> |
|    | saginata in man.   | (3 marks)        |
| f) | Explain the symptoms exhibited following infection by a filaria worm in man.     | (3 marks)        |
| g) | Explain the predilection sites of any three nematodes.                           | (3 marks)        |
| h) | Explain the symptoms charateristic to infections by pinworms in man.             | (3 marks)        |
| i) | Explain the predisposing factors to infection of nematodes to man.               | (3 marks)        |
| j) | Illustrate the structure of a gravid proglottid                                  | (3 marks)        |

#### **QUESTION TWO (20 MARKS)**

- a) Explain a contemporary method of managing filariasis in Kenya (8 marks)
- b) Explain and describe a laboratory procedure for diagnosing anaemia (12 marks)

# **QUESTION THREE (20 MARKS)**

Discuss the major phyla to which helminths infectious to man belong.

## **QUESTION FOUR (20 MARKS)**

- a) Discuss how man gets infected with the Lancet fluke (6 marks)
- b) Discuss the lifecycle of *Ascaris lumbricoides* (14 marks)

## **QUESTION FIVE (20 MARKS)**

Discuss using specific examples, the role of molluscs in the epidemiology of helminthic infections.