# 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**

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**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 haematobium*. (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 *Taenia 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.