



KENYATTA UNIVERSITY

UNIVERSITY EXAMINATIONS 2009/2010

FIRST SEMESTER EXAMINATION FOR THE DEGREE OF
BACHELOR OF SCIENCE
(ENVIRONMENTAL HEALTH)

HEH 108 ENVIRONMENTAL PARASITOLOGY

DATE: Tuesday 29th December, 2009

TIME: 2.00 p.m – 4.00 p.m

INSTRUCTIONS:

Answer ALL the questions in Section I and Section 2 Part I and any two in Section 2 Part II. Total marks = 70.

Section I

(Total marks 20)

1. Define the following terms: [5 marks]
 - i) Parasite
 - ii) Host
 - iii) Vector
 - iv) Parasitism
 - v) Symbiosis
2. State the ways in which parasites cause harm to their and state an example for each. [5 marks]
3.
 - a) Explain the zoological method of classification. [3 marks]
 - b) Use a housefly to illustrate the classification method stated in (a) above. [2 marks]
4. State the public health importance of each of the following parasites: [5 marks]
 - i) Fleas
 - ii) Lice
 - iii) Mites
 - iv) Black flies
 - v) Sand flies

Section 2 Part I

5. a) Outline the major characteristics of the three classes of helminthes. [6 marks]
- b) Outline the life cycle for each of the helminthes: hookworm, beef tapeworm. [9 marks]
- c) Outline the prevention and control of beef tapeworm. [5 marks]

Part II Answer any two (2) Questions (2x 15=30 marks)

6. a) Outline the characteristics used to distinguish hard and soft ticks. [5 marks]
- b) Explain the public health importance of ticks. [5 marks]
- c) Describe the control measures used for ticks. [5 marks]
7. a) State the scientific names of the following vectors and name one parasite transmitted by each: [5 marks]
- i) Cat flea
 - ii) Human lice
 - iii) Itch mite
 - iv) Sand flies
 - v) Tsetse flies
- b) Outline the forms of myiasis in humans. [5 marks]
- c) Describe the methods used for control of flies. [5 marks]
8. Schistosomiasis is important public health disease. Discuss the following:
- a) Cause id Schistosomiasis [5 marks]
 - b) Life cycle [5 marks]
 - c) Prevention and control of Schistosomiasis. [5 marks]