



MACHAKOS UNIVERSITY

University Examinations for 2020/2021 Academic Year

SCHOOL OF PURE AND APPLIED SCIENCES

DEPARTMENT OF BIOLOGICAL SCIENCES

FIRST SEMESTER EXAMINATION FOR

BACHELOR OF SCIENCE (AGRICULTURAL EDUCATION AND EXTENSION)

BACHELOR OF SCIENCE (BIOLOGY)

SZL 315: INTRODUCTION TO PARASITOLOGY

DATE: 12/8/2021

TIME: 11:00 – 1:00 PM

INSTRUCTIONS

Answer Question One and Any Other Two Questions

QUESTION ONE (COMPULSORY) (30 MARKS)

- a) Describe epidemiology, mode of feeding and symptom of *Ancylostoma duodenale* (3 marks)
- b) State and support your priority diseases in budget allocations for the following diseases
schistosoma, Amoebiasis and Druncunculiasis. (3 marks)
- c) Describe the disease triad in parasitology (3 marks)
- d) Describe virulence of parasites (3 marks)
- e) Describe the two major life stages of protozoans (3 marks)
- f) Distinguish two types of sexual reproductions in parasites (3 marks)
- g) Describe PAME (3 marks)
- h) Describe the exo-erythrocytic stage of *Plasmodium falciparum* (3 marks)
- i) Describe the life cycle of *Wuchereria bancrofti* (3 marks)
- j) Describe the Cercarie and Miracidium stages of *Schistosoma* (3 marks)

SECTION B: ANSWER ANY OTHER TWO QUESTIONS

QUESTION TWO (20 MARKS)

Discuss the epidemiology, morphology and diseases of *Entamoeba histolytica*.

QUESTION THREE (20 MARKS)

- a) Describe features of the Life Cycle of Roundworms (8 marks)
- b) Discuss the generalised concept of the parasites life cycle (12 marks)

QUESTION FOUR (20 MARKS)

- a) Discuss non-specific host resistance methods to parasites (6 marks)
- b) Discuss the diversity of protozoan parasites using a well labelled diagram (14 marks)

QUESTION FIVE (20 MARKS)

- a) Discuss diagnosis methods for parasitic diseases (4 marks)
- b) Discuss by classifying major Eucaryotic parasites based on their unique features (16 marks)