



MACHAKOS UNIVERSITY

University Examinations for 2021/2022 Academic Year

SCHOOL OF PURE AND APPLIED SCIENCES

DEPARTMENT OF BIOLOGICAL SCIENCES

THIRD YEAR FIRST SEMESTER EXAMINATION FOR

BACHELOR OF SCIENCE(AGRICULTURAL EDUCATION AND EXTENTION)

SZL 315: INTRODUCTION TO PARASITOLOGY

DATE: 29/8/2022

TIME: 2.00-4.00 PM

INSTRUCTIONS

Answer all the questions Question 1 and Any 2 questions in Section B

QUESTION ONE (30 MARKS)

- a) Describe a the “KEY” attribute of a parasite. (3 marks)
- b) Describe the KEY life stage of *Taenia spp* (3 marks)
- c) Define the following terminologies: (3 marks)
 - i. Coelozoic -
 - ii. Histozoic
 - iii. Cytozoic
- d) Outline the significances of an intermediate host (3 marks)
- e) Describe PAME (3 marks)
- f) Describe three larval stages of *Schistosoma spp* (3 marks)
- g) Differentiate between R- and K-Strategy of parasitic survival (3 marks)
- h) Classify protozoan parasites based on movement (3 marks)
- i) Describe recrudescence in malarial parasites. (3 marks)
- j) Describe THREE ways through which trophozoites confer pathogenesis (3 marks)

QUESTION TWO (20 MARKS)

Discuss *Giardia lamblia*

QUESTION THREE (20 MARKS)

Discuss *Cryptosporidium parvum*

QUESTION FOUR (20 MARKS)

- a) Discuss requirements for parasitic relationships (10 marks)
- b) Discuss the life cycle of *Theileria parva* (10 marks)

QUESTION FIVE (20 MARKS)

- a) Describe the life cycle of *Ancylostoma duodenale* (4 marks)
- b) Discuss reproduction in protozoan parasites (16 marks)