



MACHAKOS UNIVERSITY

University Examinations for 2021/2022 Academic Year

SCHOOL OF PURE AND APPLIED SCIENCES

DEPARTMENT OF BIOLOGICAL SCIENCES

**FIRST SEMESTER SUPPLEMENTARY/SPECIAL EXAMINATION FOR
BACHELOR OF SCIENCE IN BIOLOGY/BSC (AGRICULTURAL EXT & EDU)**

SZL315: INTRODUCTION TO PARASITOLOGY

DATE: 7/3/2023

TIME: 2.00 – 4.00 PM

Instructions

Answer all the questions Question 1 and Any 2 questions

QUESTION ONE (30 MARKS)

- a) Describe three direct effects of the parasite on the host (3marks)
- b) Classify and describe metazoan parasites into three groups (3 marks)
- c) Describe the Karyosomal chromatin of the parasite *Iodamoeba buetschlii* (3 marks)
- d) Describe the features of the Order Siphonaptera (3 marks)
- e) Explain the pathogenesis of *Leishmania donovani* (3 marks)
- f) Describe the laboratory diagnosis of *Trypanosoma Cruzi* (3marks)
- g) Outline key features of *Plasmodium vivax* (3 marks)
- h) Distinguish and explain the pathogenesis caused by *Schistosoma* spp (3 marks)
- i) State and expound on two known intestinal flukes (3marks)
- j) Describe Myiasis (3 marks)

QUESTION TWO (20 MARKS)

Discuss the Morphology of Trophozoites of any three known intestinal Flagellates (20 marks)

QUESTION THREE (20 MARKS)

- a) Describe the life cycle of the African trypanosomiasis (8 marks)
- b) Discuss the life cycle of *Echinococcus granulosus* (12 marks)

QUESTION FOUR (20 MARKS)

Contrast the Cysts' morphology of *Entamoeba histolytica*, *Entamoeba hartmanni*, *Iodamoeba buetschli* and *Endolimax nana* (20 marks)

QUESTION FIVE (20 MARKS)

- a) Using a laboratory examination and illustrations distinguish *Giardia lamblia* and *Trichomonas vaginalis* (6 marks)
- b) Contrast *Taenia saginata* and *Taenia solium* species (14 marks)