



MACHAKOS UNIVERSITY

University Examinations 2016/2017

SCHOOL OF PURE AND APPLIED SCIENCES

DEPARTMENT OF BIOLOGICAL SCIENCES

THIRD YEAR FIRST SEMESTER EXAMINATION FOR BACHELOR OF SCIENCE

(BIOLOGY)

SZL 403 MEDICAL PROTOZOOLOGY

DATE: 25/7/2017

TIME: 8:30 – 10:30 AM

INSTRUCTIONS

Answer Question One and Any Other Two Questions

1.
 - a) Distinguish between cilia and flagella as present in protozoa (3 marks)
 - b) Outline three positive economic importance of protozoan parasites (3 marks)
 - c) Explain any three parasites of the Central Nervous system (3 marks)
 - d) Illustrate the structure of *Trypanosoma brucei rhodesiense* (3 marks)
 - e) Briefly outline the diagnosis and treatment of intestinal Coccidia (3 marks)
 - f) Explain any three management practices of human infection by intestinal protozoa (3 marks)
 - g) Briefly explain any three routes of infection of humans by *Toxoplasma gondii* (3 marks)
 - h) Define commensalism using a specific example. (3 marks)
 - i) Outline the methods of asexual reproduction amongst Protozoa (3 marks)
 - j) Outline the various forms of Leishmaniasis (3 marks)
2.
 - a) Explain factors that promote drug resistance to *Plasmodium falciparum* (8 marks)
 - b) Explain the mechanisms of prevention of protistan infections to man from domestic Canidae and felines. (12 marks)
3.
 - a) Discuss the significance of feeding by the vector in the transmission of malaria. (10 marks)
 - b) Discuss 'vectorial capacity' in the transmission of malaria to man. (10 marks)
4. Discuss the various protozoan parasites inhabiting the alimentary canal of man (20 marks)
5. Discuss the methods of reproduction of the malaria parasite. (20 marks)

