



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY
SCHOOL OF HEALTH SCIENCES
UNIVERSITY EXAMINATION FOR DEGREE OF MASTER OF SCIENCE IN
BIOMEDICAL SCIENCES
1ST YEAR 2ND SEMESTER 2023/2024 ACADEMIC YEAR
KISUMU CAMPUS

COURSE CODE: HPM 5122

COURSE TITLE: ADVANCED MEDICAL PROTOZOOLOGY

EXAM VENUE: STREAM: MSc Biomedical Sciences (Medical Parasitology)

DATE: EXAM SESSION:

TIME: 3.00 HOURS

Instructions:

- 1. Answer Question 1 and Any Other THREE Questions**
- 2. Candidates are advised not to write on the question paper.**
- 3. Candidates must hand in their answer booklets to the invigilator while in the examination room.**

Answer Question 1 and Any Other THREE Questions

1. Describe the mechanism of disease pathogenesis in chronic protozoan infections leading to damage of host tissues. (15 marks)
2. Outline the local and systemic manifestations of protozoan parasites causing diseases of the gastrointestinal tract and describe their effects on various systems of the human body. (15 marks)
3. Describe the zoonotic protozoal parasitic infections occurring locally in East Africa and their various related reservoir hosts, respectively. (15 marks)
4. What are the unique features of the genetics, biochemistry and physiology of the various malarial parasites? (15 marks)
5. Describe the pathogenic amoeba associated with intestinal and extraintestinal infections and its parthenogenesis. (15 marks)
6. Human African Trypanosomiasis, also known as sleeping sickness, is caused by two subspecies of trypanosomes transmitted to man by various subspecies of Glossina (tsetse flies). Compare the life cycles and clinical manifestations of the two subspecies of trypanosomes. (15 marks)