

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

**EXAMINATION FOR THE AWARD OF DEGREE IN BACHELOR OF SCIENCE IN
MICROBIOLOGY, AGRICULTURAL EDUCATION AND EXTENSION**

ZOOL 240: GENERAL PARASITOLOGY

STREAMS:

TIME:2 HOURS

DAY/DATE: THURSDAY 13/04/2023

2.30 P.M. –4.30 P.M.

INSTRUCTIONS

Answer ALL questions in Section A and ANY TWO questions in Section B

SECTION A: SHORT ANSWER QUESTIONS (30 MARKS)

1. a. The diagram below illustrates the life stages of a protozoa parasite that causes a disease in human beings.

Give the scientific name of the parasite, disease caused and two drugs used for treatment

(3 marks)

- b. Give examples of six types of parasites.

(3 marks)

2. a. Explain the three types of symbiotic relationships citing examples.

(3 marks)

- b. Explain pre-erythrocytic *schizogony* in *Plasmodium* parasites. (3 marks)
3. a. Name any four opportunistic parasites and state one immunological effect in patients with concomitant infection. (3 marks)
- b. Describe any three types of host damage caused by parasitic infections (3 marks)
4. a. Distinguish between *Schistosoma mansoni* and *S. haematobium* with regard to pathogenesis (3 marks)
- b. Name three important species of *Leishmania*, with reference to specific diseases they cause among humans (3 marks)
5. a. Name any three routes of infection used by nematodes to get entry into their hosts, giving specific species as examples. (3 marks)
- b. Distinguish between amebic ulcers and balantidial ulcers (3 marks)

SECTION B: ESSAY QUESTIONS (40 MARKS)

6. Describe the epidemiology, morphology, lifecycle, diagnosis and control of African trypanosomes. (20 marks)
7. Discuss the epidemiology of bancroftian filariasis (20 marks)
8. a. Discuss the significance of arthropods in parasitology (8 marks)
- b. Discuss other medical conditions associated with arthropods (12 marks)
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