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**UNIVERSITY EXAMINATIONS
2022/2023 ACADEMIC YEAR**

THIRD YEAR FIRST SEMESTER

MAIN EXAMINATIONS

**FOR THE DEGREE OF BACHELOR OF AGRICULTURE EDUCATION
AND EXTENSION**

COURSE CODE: SBL 322

COURSE TITLE: PARASITOLOGY 1

DATE: 21ST APRIL 2023

TIME: 9.00 – 11.00 AM

INSTRUCTIONS TO CANDIDATES

Answer Question one (1) and any other two (2) Questions. Question one carries 30 marks; the other Questions carry 20 marks each.

TIME: 2 Hours

QUESTION ONE

- a) Write short notes on the following
- i. Definitive host (2 Marks)
 - ii. Parasitism (2 Marks)
- b) Giving specific examples of parasites, explain the adaptations of parasites to the definitive host (3 Marks)
- c) Outline the laboratory diagnosis of *Giardia intestinalis* (3 Marks)
- d) Briefly explain the risk factors to transmission of Onchocerciasis (3 Marks)
- e) Outline two symptoms of balantidiasis (2 Marks)
- f) Give three different ways by which parasites are transmitted via the oral route (3 Marks)
- g) Briefly explain three prevention measures against hookworm infection (3 Marks)
- h) State two control strategies against *Fasciola hepatica* (2 Marks)
- i) With regard to *Paragonimus westermani*, state the following: (4 Marks)
- i. Infective stage
 - ii. Intermediate host
 - iii. Definitive host
 - iv. Mode of transmission
- j) Give three general characteristics of Platyhelminthes (3 Marks)

QUESTION TWO

Using specific examples explain the effects pathogenic parasites on hosts (20 Marks)

QUESTION THREE

Describe the transmission, lifecycle, diagnosis, prevention and control of *Enterobius vermicularis* (20 Marks)

QUESTION FOUR

Explain the transmission, symptoms, treatment, and control of human leishmaniasis (20 Marks)

QUESTION FIVE

Discuss the genus *Schistosoma* in terms of species, lifecycle, symptoms and treatment (20 Marks)