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UNIVERSITY EXAMINATIONS

2022/2023 ACADEMIC YEAR

FOURTH YEAR FIRST SEMESTER

MAIN EXAMINATIONS

FOR THE DEGREE OF BACHELOR OF EDUCATION SCIENCE

COURSE CODE: SZL 413

COURSE TITLE: PARASITOLOGY AND IMMUNOLOGY

DATE: 18TH 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) With regard to malaria
- i) Explain the relationship between Sickle cell trait and Malaria (2 Marks)
 - ii) Differentiate between a trophozoite and a sporozoite (2 Marks)
- b) Briefly describe two techniques used in diagnosis of parasites (2 Marks)
- c) List three arthropod vectors and the disease each transmits (3 Marks)
- d) Name three parasites that cause human schistosomiasis (3 Marks)
- e) Outline three general characteristics of trematodes (3 Marks)
- f) State two precautionary prevent taeniasis infection (2 Marks)
- g) Outline three morphological features of round worms (3 Marks)
- h) Outline three symptoms of trichomoniasis (3 Marks)
- i) State two modes of transmission of chagas disease (2 Marks)
- j) Distinguish between biological and mechanical vector (2 Marks)
- k) Define the following terms (3 Marks)
- i. Zoonotic parasite
 - ii. Obligate parasite
 - iii. Opportunistic parasite

QUESTION TWO

Using relevant examples, explain the classes of arthropods of medical and veterinary importance (20 Marks)

QUESTION THREE

Explain factors that affect vector borne parasitic disease transmission (20 Marks)

QUESTION FOUR

- a) Describe the morphology and lifecycle of *Entamoeba histolytica* (10 Marks)
- b) Explain the intestinal and extra-intestinal amoebiasis (10 Marks)

QUESTION FIVE

Discuss the risk factors, symptoms and control of Onchocerciasis (20 Marks)