

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

EXAMINATION FOR THE AWARD OF DEGREE OF SCIENCE IN
BIOCHEMISTRY

BIOC 332: BIOCHEMISTRY OF PARASITES

STREAMS: BSC (BIOC)

TIME: 2 HOURS

DAY/DATE: FRIDAY 26/03/2021

2.30 P.M. – 4.30 P.M.

INSTRUCTIONS: Answer question ONE and any other TWO questions

QUESTION 1 (COMPULSORY) – 30 MARKS

- (a) Differentiate between:
- (i) Direct and Indirect life cycle [2 marks]
 - (ii) Definitive host and Intermediate host [2 marks]
- (b) Highlight 5 general characteristics of protozoa [5 marks]
- (c) Briefly describe the life cycle of *Trichomonas vaginalis* [5 marks]
- (d) Explain any 6 clinical features of Kala-Azar [6 marks]
- (e) Explain laboratory diagnosis of cysticercosis during *Taenia solium* infection [5 marks]
- (f) Briefly describe the pathogenicity of *Fasciola hepatica* [5 marks]

QUESTION 2 (20 MARKS)

- (a) Describe the life cycle of *Trichinella spiralis* [10 marks]
- (b) Discuss laboratory diagnosis of African trypanosomiasis [10 marks]

QUESTION 3 (20 MARKS)

- (a) Explain the laboratory diagnosis of *Wuchereria bancrofti* [10 marks]
- (b) Describe the human cycle (Schizogony) of malaria parasite [10 marks]

QUESTION 4 (20 MARKS)

- (a) Describe life cycle of *Trichuris trichiura* [10 marks]
- (b) Explain the pathogenesis and clinical feature of intestinal amoebiasis [10 marks]