

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

**EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF SCIENCE IN
BIOC 332: BIOCHEMISTRY OF PARASITES**

STREAMS:

TIME: 2 HOURS

DAY/DATE: WEDNESDAY 4/12/2019

2.30 P.M – 4.30 P.M

INSTRUCTIONS

Answer question one and any other two questions

QUESTION ONE (COMPULSORY) (30MARKS)

- (a) Outline 4 factors that influence distribution of parasites. [4 marks]
- (b) Outline 7 preventive measures that are used to break transmission cycle of parasites. [7 marks]
- (c) Briefly describe 3 common symbiotic relationship that can exist between two organisms. [6 marks]
- (d) Highlight 3 ways by which pathogenic protozoa can spread from one infected person to another. [3 marks]
- (e) Differentiate between trophozoite and cyst. [2 marks]
- (f) Briefly describe the pathogenesis of *Giardia lamblia*. [4 marks]
- (g) Briefly describe laboratory diagnosis of *Leishmania donovani*. [4 marks]

QUESTION TWO (20 MARKS)

- (a) Describe the life cycle and laboratory diagnosis of *Entamoeba histolytica*. [10 marks]
- (b) (i) Name two causative agents of *African trypanosomiasis*. [2 marks]
- (ii) Discuss the clinical features of *African trypanosomiasis*. [8 marks]

QUESTION THREE (30 MARKS)

- (a) Describe in detail the life cycle of malaria parasite. [10 marks]
- (b) State 5 medically important species of schistosomes and indicate the diseases they cause in man. [10 marks]

QUESTION FOUR (20 MARKS)

- (a) Describe the life cycle ,clinical features and treatment of *Ascaris Lumbricoides*. [10 marks]
- (b) Discuss mode of transmission, pathogenesis and diagnosis of *Wuchereria bancrofti*. [10 marks]
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