

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

**SECOND YEAR EXAMINATION FOR THE AWARD OF DEGREE
OF BACHELOR OF SCIENCE IN BIOMEDICAL SCIENCE & TECHNOLOGY**

BMET 231: MEDICAL PROTOZOOLOGY

STREAMS: BMET (Y2S2)

TIME: 2 HOURS

DAY/DATE: MONDAY 15/4/2019

8.30 A.M. – 10.30 A.M.

INSTRUCTIONS: Answer question ONE and any other TWO questions

QUESTION ONE (30 MARKS)

- (a) During host microbe interaction, there exists several distinct outcomes. Briefly discuss effects of parasites on host [4 marks]
- (b) Describe the following terms as used in parasitological studies. [2 marks]
- (i) Intermediate hosts
 - (ii) Definitive hosts
- (c) Outline prevention and control mechanisms employed against American trypanosomiasis. [5 marks]
- (d) Describe four blood and tissue protozoans clearly indicating their vectors and the disease they cause in man. [8 marks]
- (e) Different samples are required for diagnosis of various protozoan diseases. Giving examples, discuss the statement. [6 marks]
- (f) Describe parasitism as a symbiotic relationship [5 marks]
- (g) Describe four characteristics of protozoan parasites. [4 marks]

QUESTION TWO

- (a) Discuss ways through which porozoan parasite evade the immunize system and cause disease in man. [8 marks]
- (b) Briefly discuss diagnosis and treatment of Visceral leishmaniasis. [6 marks]
- (c) Giving examples of parasite involved, discuss anaerobic respiration in protozoans.

[6

marks]

QUESTION THREE

Eight year old Kitavi was diagnosed with *Entamoeba histolytica* infection. In reference to the identified organisms. Discuss

- (i) The lifecycle [4 marks]
- (ii) The pathogenesis and virulence [4 marks]
- (iii) The transmission [4 marks]
- (iv) Diagnosis [4 marks]
- (v) Its prevention and control measures [4 marks]

QUESTION FOUR

Following infections by Plasmodium falciparum. Discuss:

- (i) Transmission [6 marks]
- (ii) Clinical presentation [8 marks]
- (iii) Precautions for prevention [6 marks]
