

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

RESIT/SPECIAL

EXAMINATION FOR THE AWARD OF BACHELOR OF SCIENCE IN BIOMEDICAL TECHNOLOGY

BMET 231: MEDICAL PROTOZOOLOGY

STREAMS: BMET

TIME: 2 HOURS

DAY/DATE: WEDNESDAY 03/02/2021

11.30 A.M. – 1.30 P.M.

INSTRUCTIONS: Answer question **one** and **any other two** questions

Question 1 (Compulsory) (30 marks)

- a) Outline 4 distinguishing features between *Entamoeba histolytica* and *Entamoeba coli*. (4 Marks)
- b) Outline 5 general characteristics of protozoa. (5 Marks)
- c) Briefly describe the pathogenesis of *Giardiasis*. (6 Marks)
- d) Briefly describe laboratory diagnosis of *Leishmania donovani*. (5 Marks)
- e) Illustrate the life cycle *Balantidium coli*. (6 Marks)
- f) Differentiate between trophozoite and cyst. (4 Marks)

Question 2 (20 marks)

- a) Illustrate the life cycle and describe pathogenesis, and laboratory diagnosis of *Toxoplasma gondii* infection. (10 marks)
- b) Explain the pathogenesis of Trichomoniasis. (10 Marks)

Question 3 (20 marks)

- a) Discuss the laboratory diagnosis of *plasmodium falciparum*. (10 Marks)
- b) Describe the life cycle and laboratory diagnosis of *Entamoeba histolytica*. (10 Marks)

Question 4 (20 marks)

- a) Explain clinical features and treatment of *Cryptosporidium parvum* infection. (10 marks)
- b) Describe briefly the life cycle and laboratory diagnosis of *trypanosoma brucei gambiense*. (10 marks)