CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

RESIT/SPECIAL EXAMINATION

EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF SCIENCE

BMED 233: MEDICAL PROTOZOOLOGY

STREAMS: BSC BMED

TIME: 2 HOURS

2.30 P.M - 4.30 P.M.

DAY/DATE: WEDNESDAY 03/11/2021

INSTRUCTIONS:

• Answer question one and any other two questions.

Questions

Question 1 (Compulsory) (30 marks)

- a) Highlight 3 ways by which pathogenic protozoa can spread from one infected person to another. (3 Marks)
- b) Differentiate between trophozoite and cyst. (2 Marks)
- c) A 53 year old female presented with fever, rigors, malaise, and headaches for the past 2 days. She had lived in Migori for 8 months, where she had been hospitalized with similar complaints and treated empirically with chloroquine. She returned to Murang'a two days prior to admission. Her temperature was 102 degrees, Pulse 90, and BP 130/70. On physical examination, the spleen tip was palpable. The WBC count was 4100 / mm3, and the hemoglobin was 8.5 g /dl.

(i)	What test would help establish the diagnosis in this patient?	(3 Marks)
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(ii) What control measures are available to prevent transmission of this disease?

(4 Marks)

d) Briefly describe the pathogenesis of *Giardia lamblia* infection. (4 Marks)
e) Briefly describe laboratory diagnosis of *Leishmania donovani*. (4 Marks)
f) Describe the pathogenesis of Trichomoniasis. (5 Marks)

g)	Illustrate the life cycle Balantidium coli.	(5 Marks)
Questi	ion 2 (20 marks)	
a) b)	Describe the life cycle and laboratory diagnosis of <i>Entamoeba histolytica</i>.(i) Name two causative agents of <i>African trypanosomiasis</i>.(ii) Discuss the clinical features of <i>African trypanosomiasis</i>.	(10 Marks) (2 marks) (8 marks)
Questi	ion 3 (20 marks)	
a) b)	Describe, in detail, the life cycle of malaria parasite. Illustrate the life cycle and describe pathogenesis, and laboratory diagnosis <i>Toxoplasma gondii</i> infection.	(10 Marks) s of (10 marks)
Questi	ion 4 (20 marks)	
a) b)	Describe life cycle, pathogenicity, clinical features, diagnosis and treatmer <i>Cryptosporidium parvum</i> infection. Discuss the epidemiology and clinical features of <i>Plasmodium falparum</i> in	(10 marks)