#### **BMED 233**



#### UNIVERSITY

#### **CHUKA**

#### UNIVERSITY EXAMINATIONS

# SECOND YEAR EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF SCIENCE (BIOCHEMISTRY)

BMED 233: PROTOZOOLOGY

STREAMS: BIOC & BMED TIME: 2 HOURS

DAY/DATE: WEDNESDAY3/8/2016 8.30 A.M. – 10.30 A.M.

INSTRUCTIONS: ANSWE QUESTION ONE AND TWO OTHER QUESTIONS

#### **Question One (30 Marks)**

- (a) Describe the modern Protist classification scheme proposed by the International Society of Protistologists. [8 marks]
- (b) Protozoa utilize different mechanisms for their movement. Discuss the major motility types in Alveolata group of protists. [5 marks]
- (c) Describe the etiologies and transmission of cryptosporidiosis. [5 marks]
- (d) Discuss Polyamine metabolism in trypanosomatids, highlighting potential target for chemotherapy. [7 marks]
- (e) Malarial is a deadly co-factor for HIV/AIDS. Based on the virulence of two pathogens, discuss this statement. [5 marks]

#### **Question Two (20 Marks)**

- (a) Explain how parasitic protozoa evade host immune responses. [10 marks]
- (b) With the aid of a labeled diagrams, describe different morphological forms of kinetoplastids. [10 marks]

#### **Question Three (20 Marks)**

- (a) Discuss the pathogenicity and virulence of *E.hitolytica*. [7 marks]
- (b) How is Trichomoniasis diagnosed and treated? [6 marks]
- (c) Explain the non-clearance of Trypanosome parasite despite massive immune response mounted by an infected individual. [7 marks]

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## **Question Four (20 Marks)**

(a)	Discuss the economic importance of Malaria in Kenya.	[4 marks]
(b)	Distinguish between lowland and highland malaria.	[2 marks]
(c)	With the aid of a diagram, describe the Plasmodium life cycle.	[14 marks]

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