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(*Knowledge for Development*)

KIBABII UNIVERSITY

UNIVERSITY EXAMINATIONS
2021/2022 ACADEMIC YEAR

THIRD YEAR SECOND SEMESTER
MAIN EXAMINATIONS

FOR THE DEGREE OF BACHELOR OF AGRICULTURAL EDUCATION AND EXTENSION

COURSE CODE: **SBL 322**
COURSE TITLE: **PARASITOLOGY**

DATE: *Monday 5th September, 2022.* **TIME:** *9:00 – 11:00 A.M.*

INSTRUCTIONS TO CANDIDATES
Answer Question one (1) and any other two (2) Questions. Question one carries 30 marks, the other Questions carry 20 marks each.

TIME: 2 Hours

This paper consists of 2 printed pages. Please Turn Over

Q1.

a) Define the following terminology (3 Marks)

   i. Definitive host

   ii. Paratenic host

   iii. Parasitism

b) With specific examples, give three adaptations of parasites to the definitive host (3Marks)

c) Outline the symptoms of *Giardia intestinalis* (3Marks)

d) Briefly explain three risks of transmission of Onchocerciasis (3Marks)

e) With regard to toxoplasmosis, outline the following:

   i. Two clinical manifestations (2Marks)

   ii. Two control measures (2Marks)

f) Briefly explain any three different ways by which parasites are transmitted via the oral route. In each case, name the respective parasite (3Marks)

g) Briefly explain three ways for prevention of infection by hook worms (3Marks)

h) Name the species which is morphologically identical to *Entamoeba histolytica* but incapable of causing invasive disease (1Marks)

i) Briefly explain three prevention measures against amoebiasis (3Marks)

j) Outline two morphological features of round worms (2 Marks)

k) State two precautions that one should take to prevent taeniasis infection (2 Marks)

Q2. Describe five effects of pathogenic parasites in the host (20Marks)

Q3. Describe the life cycle, transmission and control of African Trypanosomiasis (20Marks)

Q4. Describe the genus *Schistosoma* in terms of:

a) Life cycle (8Marks)

b) Symptoms (5Marks)

c) Treatment (2Marks)

d) Prevention measures (5Marks)

Q5. Giving specific examples, discuss the role played by arthropod vectors in transmission of parasitic infections (20Marks)