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# **KIBABII UNIVERSITY**

**UNIVERSITY EXAMINATIONS**

**2016/2017 ACADEMIC YEAR**

**THIRD YEAR SECOND SEMESTER**

**SPECIAL/SUPPLEMENTARY EXAMINATION**

**FOR THE DEGREE OF BACHELOR OF SCIENCE IN BIOLOGY/BACHELOR OF AGRICULTURAL EDUCATION AND EXTENSION**

**COURSE CODE: SZL322**  
**COURSE TITLE: PARASITOLOGY I**

**DATE: 28/09/2017** **TIME: 8:00 – 10:00 A.M**

## **INSTRUCTIONS TO CANDIDATES**

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

TIME: 2 Hours

This paper consists of 2 printed pages. Please Turn Over  
KIBU Observes ZERO tolerance to examination cheating



1. a) Define each of the following terms: (3 marks)
  - I. Helminthology
  - II. Symbiosis
  - III. Commensalism
- b) Explain with examples three sources of helminth infection. (3 marks)
- c) Describe briefly three mechanical effects of parasites to their hosts. Give an example in each case. (3 marks)
- d) Differentiate citing example between carrier state and disease state. (3 marks)
- e) Explain briefly the advantages of prevention and control of parasitic infections. (3 marks)
- f) Describe briefly using example the phenomenon of visceral larval migrans. (3 marks)
- g) Describe briefly clinical manifestations of filariasis. (3 marks)
- h) Describe distinctive features of schistosomes. (3 marks)
- i) Discuss clinical signs and symptoms of onchocerciasis. (3 marks)
- j) What are the limitations of using immunological techniques in diagnosis of helminth infections?  
(3 marks)
2. Discuss the socio-economic impacts of parasites on the individual, family and country. (20 marks)
3. a) Describe the pathology of the hookworm. (10 marks)  
b) Discuss the prevention and control of *Trichiuris trichiura*. (10 marks)
4. a) Describe the morphological features of adult *Ascaris lumbricoides*. (10 marks)  
b) Describe the life cycle of *Strongyloides stercoralis*. (10 marks)
5. a) Describe the laboratory diagnosis of *Enterobius vermicularis*. (10 marks)  
b) Describe the general characteristics of nematodes. (10 marks)