



*(Knowledge for Development)*

**KIBABII UNIVERSITY**

**UNIVERSITY EXAMINATIONS**

**2023/2024 ACADEMIC YEAR**

**THIRD YEAR FIRST SEMESTER**

**SPECIAL/SUPPLEMENTARY EXAMINATION**

**FOR THE DEGREE OF BACHELOR OF SCIENCE BIOLOGY**

**COURSE CODE: SZL 314**

**COURSE TITLE: PARASITOLOGY I**

**DATE: 6<sup>TH</sup> DECEMBER 2023**

**TIME: 8.00 - 10.00 AM**

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**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



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### QUESTION ONE

- a) Describe the diagnosis of *Enterobius vermicularis* (2 Marks)
- b) Describe the transmission of *Strongyloides stercoralis* (3 Marks)
- c) Briefly explain the control measures against fascioliasis (3 Marks)
- d) Differentiate between definitive host and intermediate host (2 Marks)
- e) Explain with examples three sources of helminth infection (3 Marks)
- f) Mention or name any three parasites and explain their importance (3 Marks)
- g) Using examples elaborate on the modes of parasite transmission (3 Marks)
- h) Differentiate between facultative and obligate parasite (2 Marks)
- i) Describe the transmission of *Echinococcus granulosus* (3 Marks)
- j) Name three round worms which infect human beings and their final location in the body. (3 Marks)
- k) Give the helminthic parasites are found in the following specimens: (3 Marks)
- i) Faeces
  - ii) Urine
  - iii) Blood

### QUESTION TWO

Discuss the life cycle, transmission and control of Schistosomiasis (20 Marks)

### QUESTION THREE

Discuss the morphology, life cycle, and diagnosis of *Trichuris trichiura* (20 Marks)

### QUESTION FOUR

Discuss the physiology adaptations of helminthic parasites (20 Marks)

### QUESTION FIVE

- a). Using specific examples discuss the classification of helminthic parasites (10 Marks)
- b). Giving relevant examples describe the major arthropod vectors of helminthic parasites. (10 Marks)