



**KISII UNIVERSITY**  
**UNIVERSITY EXAMINATIONS**

**THIRD YEAR EXAMINATION FOR THE AWARD OF THE DEGREE OF  
BACHELOR OF EDUCATION SCIENCE AND LABORATORY SCIENCE**  
**SECOND SEMESTER 2021/2022**  
**(FEBRUARY-JUNE, 2022)**

**ZOOL 341: HELMINTHOLOGY**

**STREAM: Y3 S2**

**TIME: 2 HOURS**

**DAY: WEDNESDAY, 12:00 PM – 2:00 PM**

**DATE: 25/05/2022**

**INSTRUCTIONS:**

- 1. Do not write anything on this question paper.**
- 2. Answer all questions in section A and any TWO in section B.**

**Section A**

1. Define the following terms as used in helminthology. (6 marks)
  - a. Tenesmus
  - b. Infective stage
  - c. immunocompromized individuals
  - d. nocturnal
  - e. sheath
  - f. diurnal
2. Using an example discuss **FIVE** economic importance of helminths (5 marks)
3. Exposure of humans to helminthes may occur in different ways. Using example elaborate. (5 marks)
4. State **FOUR** differences and **FOUR** similarities of *Wuchereria bancrofti* and *Onchocerca volvulus* (8 marks)
5. Discuss briefly the immunology of helmith infections. (5 marks)
6. Briefly describe the life cycle of *Echinococcus granulosus* (6 marks)
7. Differentiate between *Taenia saginata* and *Taenia solium* (5 marks)

## **SECTION B**

8. Briefly discuss intestinal nematodes with tissue stage. (15 marks)
9. A patient who was taken to KTRH was found to be suffering from terminal haematuria and painful micturition.
  - a. Which disease was the patient likely to be suffering from. (1 mark)
  - b. Which parasite causes the above disease. (1 mark)
  - c. Discuss the habitat, life cycle and the distribution of the above disease. (13 marks)
10. Discuss the life cycle and clinical presentation of the eye worm. (15 marks)