

  
**KISII UNIVERSITY**  
**UNIVERSITY EXAMINATIONS**  
**FIRST YEAR EXAMINATION FOR THE AWARD OF THE**  
**DIPLOMA IN COMMUNITY HEALTH AND DEVELOPMENT**  
**SECOND SEMESTER 2022/2023**  
**[JANUARY-APRIL, 2023]**

**COMH 0121: INTRODUCTION TO PARASITOLOGY**

**STREAM: Y1S2**

**TIME: 2 HOURS**

**DAY: TUESDAY, 9:00 – 12:00 PM**

**DATE: 28/03/2023**

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**INSTRUCTIONS**

- 1. Do not write anything on this question paper.**
- 2. Answer question ONE and any other TWO questions in Section B.**

**SECTION A: ANSWER ALL QUESTIONS [TOTAL 40 MARKS]**

1. Define the following and give two types of parasites and hosts. (7 marks)  
i. Parasite    ii. Parasitism    iii. Mutualism
2. Explain briefly the various types of parasites and hosts. (5 marks)
3. Explain the three types of symbiotic relationships and give examples. (5marks)
4. Discuss the mechanisms by which parasites impose their effect on the host. (5marks)
5. Give examples of reactions that occur in the body of the host following parasitic invasion. (5marks)
6. Outline some of the diagnostic laboratory procedures for establishment of parasitic infestation. (5marks)
7. Explain the three types of symbiotic relationships and give examples. (5marks)
8. Name the specimen that will be used to diagnose the following parasites (3marks)  
i. *Giardia lamblia*    ii. *Taenia sagnata*    iii. *Plasmodium falciparum*

**SECTION B 30 MARKS**

**Answer any two questions from this section. All questions carry equal marks**

9. Discuss the life cycle of *Plasmodium falciparum* and its pathogenesis. (15marks)
10. Discuss the life cycle of *Ascaris lumbricoides* and its pathogenesis. (15marks)
11. (a) Briefly describe the life cycle of *Trypanosoma spp.* (5marks)
- (b) List the disease symptoms in both man and other animals. (5marks)
- (c) Explain briefly the control measures of trypanosomes. (5marks)