



**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY**  
**SCHOOL OF HEALTH SCIENCES**  
**UNIVERSITY EXAMINATION FOR DEGREE OF MASTER OF SCIENCE IN**  
**BIOMEDICAL SCIENCES**  
**1<sup>ST</sup> YEAR 1<sup>ST</sup> SEMESTER 2023/2024 ACADEMIC YEAR**  
**KISUMU CAMPUS**

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**COURSE CODE: HPM 5111**

**COURSE TITLE: EPIDEMIOLOGY AND CONTROL OF PARASITIC INFECTIONS**

**EXAM VENUE: STREAM: MSc Biomedical Sciences (Medical Parasitology)**

**DATE: EXAM SESSION:**

**TIME: 3.00 HOURS**

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**Instructions:**

- 1. Answer Question One and Any Other THREE Questions**
- 2. Candidates are advised not to write on the question paper.**
- 3. Candidates must hand in their answer booklets to the invigilator while in the examination room.**

**Answer Question 1 and any 3 other questions.**

**Q1. (Compulsory)**

Discuss any 5 factors involved in the distribution of parasitic diseases [15 marks]

**Q2.**

Using any 3 examples, describe how genetically controlled parasite characteristics influence disease epidemiology. [15 marks]

**Q3.**

Describe how behavioral factors which influence the epidemiology and control of *Echinococcus gralunosus* [15 marks]

**Q4.**

Discuss any 3 major approaches used in the management of parasitic infections [15 marks]

**Q5.**

Discuss the challenges associated with the management of vector-borne parasitic diseases, using a particular example [15 marks]

**Q6**

Discuss any 5 factors that affect parasite transmission in human and other hosts [15 marks]