



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

**FIRST YEAR EXAMINATION FOR THE AWARD OF**  
**THE DEGREE OF MASTER OF SCIENCE PARASITOLOGY**  
**SECOND SEMESTER 2022/2023**  
**(JUNE-SEPTEMBER, 2022)**

**MEPA 840: PHYSIOLOGY OF MEDICAL PARASITES**

**STREAM: Y1S2**

**TIME: 3 HOURS**

**DAY: TUESDAY, 8.00 AM – 11.00 AM**

**DATE: 27/09/2022**

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**INSTRUCTIONS:**

- 1. Do not write anything on this question paper.***
- 2. Answer question ONE compulsory and any other TWO questions***
- 3. Use diagrams where necessary***

**QUESTION ONE**

- Describe the physiological effects of parasites on hosts. (13 marks)
- Using three parasitic infections explain the physiological basis of parasite-induced alterations of host behavior. (7 marks)

**QUESTION TWO**

Explain how parasite physiological adaptations can be relevant to their control (20 marks)

**QUESTION THREE**

Describe the physiological adaptations (intracellular and extracellular) of parasites. (20 marks)

**QUESTION FOUR**

Outline parasite strategies used in host cell manipulation and escaping the host immunological response with examples highlight major physiological adaptations (intracellular and extracellular) that parasites develop. (20 marks)