

**SPECIFY TYPE OF EXAMINATION**

FIRST ATTEMPT

FIRST RESIT

SECOND RESIT

RE-TAKE



**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY**  
**SCHOOL OF HEALTH SCIENCES**  
**UNIVERSITY EXAMINATION FOR DEGREE OF PUBLIC HEALTH AND**  
**COMMUNITY DEVELOPMENT**  
**1<sup>st</sup> YEAR 1<sup>st</sup> SEMESTER 2024/2025 ACADEMIC YEAR**  
**TOWN CAMPUS**

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**COURSE CODE: HES 5111**

**COURSE TITLE: Bioethics**

**DATE:**

**TIME: 9.00-12.00 NOON**

**TIME: 2 HOURS**

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**Instructions:**

1. Answer question 1 (compulsory) and any other three (3).
2. Each question carries 15 marks



Registration No.....

**Answer any four questions. Each question carries 15 marks.**

**Question 1:** Concerning conduct of multinational clinical research:

- a. Describe the benchmarks of collaborative research in clinical research. 10mks
- b. Explain approaches to maintaining research integrity and quality of conduct. 5mks.

**Question 2:** Institutional Research Ethics Committees (IRECs) are mandated to assess research protocol before they are implemented and its ongoing conduct.

- a. Describe **four** ways that might be used to implement ongoing research supervision. [6 marks]
- b. Describe **four** ways of dealing with research misconduct. [6 marks]
- c. Identify any **one** challenge with ongoing research supervision and explain why it is a problem and possible mitigation. [3 marks]

**Question 2:** You are part of the core team that have been tasked by the Principal Investigator to prepare the research protocol for submission to the Institutional Research Ethics Committee for review and approval.

- a. Explain **four** reasons why it is important to submit research protocols to a review process by ethics review committees. [4 marks]
- b. Describe any **five** of the ethical issues reviewers will be considering during review. [5 marks]
- c. Chose any **one** of the issues identified in (b) above and demonstrate how the ethics review team might discuss it. [5 marks]
- d. Explain role of the chairperson of ethics review committee [1 marks]

**Question 3:** The following ethical issues are important yet still problematic in research with regard to research in developing countries. Identify their underlying ethical principles and highlight why they pose difficulties to researchers.

- a. Benefit sharing [5 marks]
- b. Research integrity [5 marks]
- c. Informed consent [5 marks]

**Question 4:** Data management practices are central to a successful research. However, if improperly managed they may become invalid.

- a. Describe any **five** of the ethical issues in data collection and management in observational and experimental studies. [10 marks]
- b. Discuss how these ethics issues could be resolved [5 marks]



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**Question 5:** In bioethical reasoning, the concept of **justice** plays a crucial role in guiding the decision-making process. Discuss **three** ways in which **JUSTICE** can be understood and applied within given research or healthcare context. [15 marks]