



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY
SCHOOL OF HEALTH SCIENCES
UNIVERSITY EXAMINATION FOR DEGREE OF MASTER OF SCIENCE IN
EPIDEMIOLOGY AND BIostatISTICS
1st YEAR 1st SEMESTER 2022/2023 ACADEMIC YEAR
TOWN CAMPUS

COURSE CODE: HES 5111

COURSE TITLE: BIOETHICS

EXAM VENUE:

STREAM:

DATE:

EXAM SESSION: DEC 2022

TIME:

3.00 HOURS

Instructions:

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

Answer any four questions. Each question carries 15 marks.

Question 1: Discuss the contributions of the following personalities to modern day bioethical analysis and implementation of clinical trials. (5 marks each)

- a. Ezekiel Emanuel
- b. Immanuel Kant
- c. John Stuart Mills

Question 2: Risk-Benefit analysis in bioethics review'

- a. Describe the rationale of 'Risk-Benefit' analysis. *5 marks*
- b. Describe ways which the Institutional Research Ethics Committees (IRECs) can apply when reviewing a health research protocol. *10 marks*

Question 3: Public health is the societal approach to protecting and promoting health of the community through collective actions aimed. Potential ethical lapses in public health practice and research are common, yet medical ethical principles are not adequate to provide response guidelines.

- a. In what ways do public health ethics and conventional bioethical principles differ? *3 marks*
- b. Highlight any THREE ethical challenges public health professionals / researchers may encounter in implementing immunization program activities. *3 marks*
- c. Using an appropriate public health ethics framework, describe how you would address the challenge(s) you have identified. *9 marks*

Question 4: Ethical Issues in clinical trials:

- a. Highlight any THREE risks associated with phase 1 clinical trials. *5 marks*
- b. Discuss how regulation and governance can promote high-quality research as well as maintain public and professional trust in conduct of clinical trials and findings *10 marks*

Question 5: The following ethical issues are important yet still problematic in international collaborative research. Define each and discuss why they continue to be problematic issues in the research context in low- and middle- income countries.

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

