

LAIKIPIA



UNIVERSITY

## UNIVERSITY EXAMINATIONS

**SECOND SEMESTER 2023/2024 ACADEMIC YEAR**

**FOURTH YEAR EXAMINATION FOR THE DEGREE OF  
BACHELOR OF SCIENCE IN BIOCHEMISTRY**

**BIOC 425: BIOSECURITY AND BIOETHICS**

***STREAM: (BSc Biochemistry)***

***TIME: 2 HRS***

***DAY: THURSDAY [11.30A.M – 1.30P.M]    DATE: 11/04/2024***

**THIS QUESTION PAPER CONSISTS OF THREE (3) PAGES**

**PLEASE DO NOT OPEN UNTIL THE INVIGILATOR SAYS SO.**



**INSTRUCTIONS**

- i. Answer ALL questions in Section A and ANY ONE question in Section
- ii. Do not write on the question paper

**SECTION A: ANSWER ALL QUESTIONS****QUESTION ONE**

Outline the following:

- a. Conditions of patentability (3 Marks)
- b. Objects of the Biosafety Act (3 Marks)
- c. Content of informed consent (4 Marks)

**QUESTION TWO**

State the following:

- a. Adaptation rights (2 Marks)
- b. Moral rights (4 Marks)
- c. Right of communication to the public (4 Marks)

**QUESTION THREE**

Elucidate the following concerning organ transplantation:

- a. Ethical issues regarding the donor (4 Marks)
- b. The principles under which ethical and legal issues related to organ and tissue procurement and transplantation are often discussed (6 Marks)

**QUESTION FOUR**

Discuss the ethical issues in the following (10 Marks)

- a. Pre-symptomatic Testing
- b. Carrier Screening/Testing

**QUESTION FIVE**

Outline the pros and cons of euthanasia (10 Marks)



**SECTION B: ANSWER ANY ONE QUESTION OF YOUR CHOICE**

**QUESTION SIX**

Discuss the functions of National Commission for Science, Technology and Innovation (NACOSTI) **(20 Marks)**

**QUESTION SEVEN**

Discuss the Biosafety Regulations in regard to Genetically modified Organism **(20 Marks)**

