



# TECHNICAL UNIVERSITY OF MOMBASA

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FACULTY OF APPLIED AND HEALTH SCIENCES

DEPARTMENT OF MEDICAL SCIENCES

**UNIVERSITY EXAMINATION FOR:**

**MASTERS**

**AML 5114: BIOSAFETY, BIOETHICS, BIOPOLICY AND BIO-ENTREPRENEURSHIP**

**END OF SEMESTER EXAMINATION**

**SERIES: APRIL 2016**

**TIME: 3 HOURS**

**DATE: Pick Date May 2016**

## **Instructions to Candidates**

You should have the following for this examination

*-Answer Booklet, examination pass and student ID*

This paper consists of **FIVE** Question(s). Attempt **ALL** questions.

**Do not write on the question paper.**

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## **Question ONE**

Discuss in detail the four containment levels required in handling biological materials (20 Marks)

## **Question TWO**

Discuss in brief the aspects of biotechnology under ethical issues and risks (20 Marks)

## **Question THREE**

Discuss the management of bioethics in clinical trials

## **Question FOUR**

- a) Describe the various types of intellectual property rights (10 Marks)
- b) Discuss in brief the impact of intellectual property rights on biotechnology (10 Marks)

### **Question FIVE**

You have been requested to develop a protocol on the management of Valuable biological materials by a joint committee of the Ministries of Health, Education and Internal Security. Give an outline of the protocol (20 marks).