



TECHNICAL UNIVERSITY OF MOMBASA

FACULTY OF APPLIED AND HEALTH SCIENCES

DEPARTMENT OF PURE AND APPLIED SCIENCES

UNIVERSITY EXAMINATION FOR:

MASTER OF SCIENCE IN BIOTECHNOLOGY

ABT 5108 BIOTECHNOLOGY AND BIO-ECONOMY POLICIES

SPECIAL/ SUPPLEMENTARY EXAMINATIONS

SERIES: SEPTEMBER 2018

TIME: 3 HOURS

DATE: Sep 2018

PAPER 2

Instructions to Candidates

You should have the following for this examination

-Answer Booklet, examination pass and student ID

This paper consists of six questions. Attempt any four questions

Do not write on the question paper.

Question ONE

Discuss the role of Convention on Biological Diversity in achieving the Sustainable Development Goals (25 mks)

Question TWO

Discuss the opportunities and challenges of bioeconomy on

- a) The economic growth of a country (12 mks)
- b) Climate, environment and human health (13 mks)

Question THREE

- a) Describe the functions of the National Biosafety Authority in Kenya (9 mks).
- b) Describe bioethical issues in microbial technology (16 mks)

Question FOUR

- a) Outline the societal concerns associated with research using modern biotechnology (15 mks)
- b) Highlight the national Biosafety authority regulation on import, export and transit regulation (10 mks)

Question FIVE

Discuss ethical issues regarding human cloning (25 mks)

Question SIX

Using relevant examples, discuss key weaknesses facing bio-entrepreneurs during licensing deal negotiation (25 mks)