



**MASINDE MULIRO UNIVERSITY OF
SCIENCE AND TECHNOLOGY
(MMUST)**

UNIVERSITY EXAMINATIONS

2022/2023 ACADEMIC YEAR

**MAIN EXAMINATIONS
MAIN CAMPUS**

FOURTH YEAR SECOND SEMESTER EXAMINATIONS

**FOR THE DEGREE
OF
BACHELOR OF SCIENCE IN BIOTECHNOLOGY**

COURSE CODE: SBT 424

COURSE TITLE: BIO-POLICY

DATE: MONDAY, 17TH APRIL 2023

TIME: 3:00 – 5:00 P.M.

INSTRUCTIONS TO CANDIDATES

Answer ALL questions in section A and ANY TWO selected from section B

TIME: 2 Hours

MMUST observes ZERO tolerance to examination cheating

This Paper Consists of 2 Printed Pages. Please Turn Over. ►

SECTION A (SHORT ANSWER QUESTIONS, 40 MARKS)

1. Application for a patent requires several steps. Summarise the steps involved in Patent Application? (5 marks)
2. Elucidate the key risks envisaged during environmental risk assessment of genetically modified organisms. (8 marks)
3. Transgenic Bt cotton has been approved for confined field trials in Kenya. This is the first GMO product which is in the field in Kenya. With clear definition of a confined field trial explain what you as a research officer is supposed to plan and mitigate for a successful experiment and differentiate your trial from a containment experiment. (8 marks)
4. Highlight on the Bio-safety ACT of Kenya 2009 and its subsequent amendments in 2012, 2015 and what it entails. (8 marks)
5. The COMESA countries in 2010 had a meeting in Nairobi to establish a common policy to ease trade in genetically modified food and feed if ever there is need to trade in the same. Briefly discuss the need for this. (5 marks)
6. With your knowledge on the importance of the Nagoya Protocol, explain how it addresses traditional knowledge associated with genetic resources and genetic resources held by the indigenous community? (6 marks)

SECTION B (ESSAY QUESTIONS, 30 MARKS)

7. Appraise on the thematic areas of importance in the CODEX ALIMENTARIUS and highlight on the importance of the stated areas. (15 marks)
8. United States is not a signatory to the Cartagena Protocol while Kenya is a signatory. Discuss the presumed advantages of the US not being a signatory and relate to Kenya. (15 marks)
9. Nagoya protocol is a 2010 supplementary agreement to the 1992 Convention on Biological Diversity. Discuss the Key issues in the Protocol. (15 marks)