



(University of Choice)

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

MAIN CAMPUS

**UNIVERSITY EXAMINATIONS
2021/2022 ACADEMIC YEAR**

END OF SEMESTER TWO EXAMINATIONS

**FOR THE DEGREES
OF
DOCTORS OF PHILOSOPHY IN MEDICAL LABORATORY
SCIENCES, BIOMEDICAL SCIENCES AND PUBLIC HEALTH**

COURSE CODE: BML 921

**COURSE TITLE: BIOMEDICAL TECHNOLOGY DEVELOPMENT AND
INNOVATION**

DATE: 29/04/2022

TIME: 8.00 -11.00 AM

INSTRUCTIONS TO CANDIDATES

This examination paper contains five questions of 25 marks each. Answer QUESTIONS ONE and any other THREE questions. Illustrate your answers with labeled diagrams where appropriate.

MMUST observes ZERO tolerance to examination cheating

This Paper Consists of 2 Printed Pages. Please Turn Over

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BML 921: BIOMEDICAL TECHNOLOGY DEVELOPMENT AND INNOVATION

QUESTION ONE

- a) compare and contrast between technology and innovation.
- b) “*Biomedical technology and innovation have not only improved the quality of health services, but also responsible for increased health expenditure*”. Citing examples, from the Kenyan health system, discuss this statement.
- c) Communities residing in rural areas are disadvantaged with regards to accessing quality health services. Explain how biomedical technology innovations can empower and promote health and well-being of populations in rural settings.

QUESTION TWO

Discuss the process of development of biomedical technology.

QUESTION THREE

Discuss how technological advancements have improved training in the biomedical sciences.

QUESTION FOUR

Describe the innovations in biomedical technological innovations have improved health research.

QUESTION FIVE

Discuss the problems Kenya experiences as it strives to advance in biomedical technology development and innovation.