



*(University of Choice)*

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

**(MAIN CAMPUS)**

**UNIVERSITY EXAMINATIONS (MAIN PAPER)  
2022/2023 ACADEMIC YEAR**

**FIRST YEAR SECOND SEMESTER EXAMINATIONS**

**FOR THE DEGREE  
OF  
MASTERS OF SCIENCE IN FORENSIC SCIENCE**

**COURSE CODE: BMF 821**

**COURSE TITLE: GENERAL FORENSIC SCIENCE**

**DATE: 17 APRIL 2023**

**TIME: 11.00 – 2.00PM**

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**INSTRUCTIONS TO CANDIDATES**

Answer ANY FOUR Questions

**TIME: 3 Hours**

MMUST observes ZERO tolerance to examination cheating

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

1. Define forensic DNA contamination and laboratory steps taken to detect or prevent contamination (25Mks)
2. (a) Describe blood stain characterization to test whether a sample from a crime scene is Blood (15marks)  
(b) Describe wound analysis of Abrasions and Firearm injuries and their medico-legal importance in forensic science. (10 marks).
3. An allegation of rape has been made by a complainant/complainer. The suspect claims not to have had intercourse with the complainant/complainer, but only to have touched her external genital region. He says he masturbated two hours previous to the alleged incident. Explain how you can investigate such a case if you are working in a forensic laboratory (25 marks).
4. Jenipher, an engineer, mysteriously disappeared and his body was later discovered wrapped in black polythene in Kakamega Rain Forest after seven days. Using forensic knowledge, describe how the time, cause, manner and mechanism of his death were determined (25 marks).
5. What is single Nucleotide Polymorphism? Describe reasons why it is useful in genetic marker in forensic science? (25Mks)