



# MASINDE MULIRO UNIVERSITY OF SCIENCE AND TECHNOLOGY (MMUST)

### **UNIVERSITY EXAMINATIONS**

### **2021/2022 ACADEMIC YEAR**

### MAIN EXAMINATIONS MAIN CAMPUS

### FIRST YEAR SECOND SEMESTER EXAMINATIONS

## FOR THE DEGREE OF MASTER OF SCIENCE IN BIOINFORMATICS

**COURSE CODE:** 

**SBI 822** 

**COURSE TITLE:** 

**MOLECULAR MARKERS & THEIR** 

**APPLICATION** 

DATE: TUESDAY, 26<sup>TH</sup> APRIL 2022

TIME: 9:00 - 12:00 P.M.

#### INSTRUCTIONS TO CANDIDATES

Answer ANY FOUR questions (60 marks)

TIME: 3 Hours

MMUST observes ZERO tolerance to examination cheating

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



1.	Using case examples discuss how functional markers can be utilized in imporganisms.	rovement of (15 marks)
2.	Design an experiment where you are utilizing biochemical markers to answer question of choice.	a scientific (15 marks)
3.	Genomic markers are not affected by environmental factors, sample collection development of a plant. Validate this statement.	ad stage of (15 marks)
4.	Using case examples discuss the bottlenecks that are associated with morphological that led to significant adoption of molecular markers.	cal markers (15 marks)
5.	Using illustrations where necessary, discuss the application of different molecu in DNA fingerprinting and genome mapping.	lar markers (15 marks)