



(University of Choice)

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

**MAIN CAMPUS  
MAIN EXAMINATIONS**

**UNIVERSITY EXAMINATIONS  
2021/2022 ACADEMIC YEAR**

**SECOND YEAR SECOND SEMESTER EXAMINATIONS  
FOR THE DEGREE  
OF  
MASTER OF SCIENCE MOLECULAR BIOLOGY**

**COURSE CODE: SBB 826**

**COURSE TITLE: PROTEOMICS AND GENOMICS**

**DATE: MONDAY, 25<sup>TH</sup> APRIL 2022**


**TIME: 9:00 – 12:00 P.M.**

**INSTRUCTIONS TO CANDIDATES**

Answer any 4 questions

TIME: 2 Hours

MMUST observes ZERO tolerance to examination cheating

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

1. Discuss sangers sequencing and its limitations when compared with NGS.
2. Explain the use of DNA microarray and state its role in genomics.
3. Discuss the conformational properties of proteins.
4. Explain the following techniques for protein identification;
  - a) X-ray crystallography
  - b) HPLC
5. Discuss protein domains and folds in terms of SCOP,CATH and DALI.