



(University of Choice)

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

(MAIN CAMPUS)

## UNIVERSITY EXAMINATIONS 2021/2022 ACADEMIC YEAR

END OF SECOND SEMESTER **EXAMINATIONS** 

## FOR THE MASTER OF SCIENCE IN

## MEDICAL BIOTECHNOLOGY

**COURSE CODE:** 

**BMB 824** 

**COURSE TITLE: BIOINFORMATICS** 

DATE:

22/04/2022

TIME: 8:00-11:00 AM

**INSTRUCTIONS:** 

ANSWER ALL QUESTIONS IN THIS EXAMINATION USE DIAGRAMS IN YOUR EXPLANATIONS, WHENEVER APPLICABLE

TIME: 2 HOURS

MMUST observes ZERO tolerance to examination cheating

This Paper Consists of 2 Printed Pages. Please Turn Over

1.	Discuss biolinormatics in the context of gene annotation and functional prediction	(25 marks)
2.	Discuss the BLAST (basic local alignment search tool) algorithm	(25marks)
3.	Discuss the use of bioinformatics in analysis of gene expression, regulation and cellula	r organisation (25 marks)
4.	Discuss the main features of the GenoCad	(25 marks)
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