



MASINDE MULIRO UNIVERSITY OF SCIENCE AND TECHNOLOGY (MMUST)

MAIN CAMPUS

UNIVERSITY EXAMINATIONS 2021/2022 ACADEMIC YEAR

FIRST YEAR SECOND SEMESTER EXAMINATIONS

FOR THE DEGREE OF MASTER OF SCIENCE BIOMEDICAL SCIENCES (MEDICAL BIOTECHNOLOGY)

MAIN EXAM

COURSE CODE:

BMB 822

COURSE TITLE:

GENE EXPRESSION, REGULATION AND PROTEIN

TRAFFICKING MOLECULAR BIOLOGY

DATE: 25/04/2022

TIME: 12.00 -3.00 PM

INSTRUCTIONS TO CANDIDATES

This paper has five questions, you are required to answer FOUR questions. Question ONE is compulsory. Choose any other 3 questions.

TIME: 3 Hours

MMUST observes ZERO tolerance to examination cheating

Compulsory

1. Compare and contrast prokaryotic and eukaryotic gene expression (25 Marks).

Choose any 3 Questions

- Give detailed account of eukaryotic gene expression
 Discuss protein translocation and trafficking
 Write brief notes on the following.

 (25 Marks).
 (25 Marks).
 - a) Genetic code
 - b) Molecular Chaperones and Proteasomes
 - c) Proteasomes and Ubiquitin
 - d) Protein activation
 - e) Alternative splicing
- 5. Discuss inhibitors of protein synthesis.

(25 Marks).