



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

**UNIVERSITY EXAMINATIONS (MAIN PAPER)
2021/2022 ACADEMIC YEAR**

SECOND YEAR SECOND SEMESTER EXAMINATIONS

**FOR THE DEGREE
OF**

**MASTER OF SCIENCE IN MEDICAL MICROBIOLOGY
COURSE CODE: BMM 812**

**COURSE TITLE: MEDICAL BACTERIOLOGY AND
BACTERICIDAL**

DATE: 26/04/2022 TIME: 8.00 - 11.00 AM

INSTRUCTIONS TO CANDIDATES

This paper consists FIVE questions. Answer any FOUR.

TIME: 3 Hours

MMUST observes ZERO tolerance to examination cheating

This Paper Consists of 2 Printed Pages. Please Turn Over

INSTRUCTIONS: Answer 4 (four) questions. Question 1 (one) is compulsory. (each 25 marks)

1. Discuss EmbdenMayerhof Pathway (EMP)-a pathway that bacteria use to convert glucose into pyruvate.
2. With examples discuss the mechanisms used by bacterial pathogens to escape the host immune system
3. Write short notes on types of vaccine used in disease prevention and control
4. Discuss optimal requirements for growth of bacteria
5. Discuss the process of gene transfer and its application in genetic engineering.