



**MASINDEMULIROUNIVERSITY OF
SCIENCE AND TECHNOLOGY
(MMUST)**

UNIVERSITY EXAMINATIONS

2021 /2022 ACADEMIC YEAR

MAIN CAMPUS

MAIN EXAMINATION

SECOND YEAR SECOND SEMESTER EXAMINATIONS

**FOR THE DIPLOMA
IN
APPLIED BIOLOGY**

COURSE CODE: DSB 022

COURSE TITLE: MICROBIOLOGY 1

DATE: MONDAY, 25TH APRIL 2022

TIME: 8:00 – 10:00 A.M.

INSTRUCTIONS TO CANDIDATES

Answer ALL questions in section A and ANY TWO selected from section B

TIME: 2 Hours

MMUST observes ZERO tolerance to examination cheating

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

SECTION A (SHORT ANSWER QUESTIONS, 40 MARKS)

1. Give the importance of sterilization in microbiology. (5 marks)
2. Outline the different methods of bacteria inoculation. (5 marks)
3. Describe the bacterial physical growth requirements. (5 marks)
4. Explain the ways of coping up with emerging issues and trends in microbiology. (5 marks)
5. Draw and labelled the bacterial cell structure. (5 marks)
6. Outline the aseptic procedures in culturing bacteria. (5 marks)
7. Giving examples explain the role of bacteria in nitrogen fixation. (5 marks)
8. Give five reason for rejecting a specimen. (5 marks)

SECTION B (ESSAY QUESTIONS, 30 MARKS)

9. Describe the WHO code of practice in biosafety leve 1 and 2. (15 marks)
10. Explain the structure and function of bacteria organnells. (15 marks)
11. Identify and explain the methods used in specimen preservation. (15 marks)