



(University of Choice)

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

MAIN CAMPUS/ODEL

**UNIVERSITY EXAMINATIONS
2021/2022 ACADEMIC YEAR**

**SECOND YEAR SECOND SEMESTER EXAMINATIONS
FOR THE DEGREE
OF
BACHELOR OF AGRICULTURE AND EDUCATION (AGED)
(MAIN EXAMINATION)**

COURSE CODE: SBL 212

COURSE TITLE: GENERAL MICROBIOLOGY

DATE: 26/04/2022

TIME: 12-2 PM

INSTRUCTION TO CANDIDATES

Answer ALL questions in Section A and Any TWO questions in Section B

TIME: 2 hours

MMUST observes ZERO tolerance to examination cheating

This paper consists of TWO printed pages. Please Turn Over

SECTION A: (30MARKS)

QUESTION 1

- a) Define and explain 4 branches of microbiology (5mks)
- b) State Koch's postulates as applied in microbiology(4mks)
- c) Outline the any TWO processes nutrients are assimilated by microbes(2mks)
- d) Outline the differences between bacteria and fungi (3mks)
- e) State 2 basic characteristics of protozoa (2mks)
- f) List four phases of microbial growth curve(4mks)
- g) Briefly explain environmental factors that Influence Microbial Growth(3mks)
- h) State the major groups of microorganisms (4mks)
- i) Name three diseases caused by viruses in humans(3mks)

SECTION B (40 MARKS)

Question 2: Discuss the basis of classification, key characteristics and importance of Bacteria(20mks)

Question 3: Fungi play a critical role in the field of microbiology. Discuss (20mks)

Question4: Discuss the classification, characteristics and ecological & economic importance of algae (20mks)