

MASINDE MULIRO UNIVERSITY OF SCIENCE AND TECHNOLOGY (MMUST)

(MAIN CAMPUS)

UNIVERSITY EXAMINATIONS 2020/2021 ACADEMIC YEAR

FIRST YEAR SECOND TRIMESTER EXAMINATIONS

FOR THE DEGREE OF BACHELOR OF OPTOMETRY AND VISION SCIENCES MAIN EXAMINATION

COURSE CODE: BML 132

COURSE TITLE: INTRODUCTION TO MEDICAL MICROBIOLOGY

DATE: 27/04/2022

TIME: 3-5pm

INSTRUCTIONS TO CANDIDATES

This paper is divided into three sections, A B and C, carrying respectively: Multiple Choice Questions (MCQs), Short Answer Questions (SAQs) and Long Answer Questions (LAQs). Answer all questions.

TIME: 2 Hours

Answer all questions

MMUST observes ZERO tolerance to examination cheating

This Paper Consists of 2 Printed Pages. Please Turn Over

SECTION A (SHORT ANSWERED QUESTIONS) 40MKS

- 1. Describe the morphology of a bacterial cell (4marks)
- 2. Describe the following shapes of bacteria (4mks)
 - a. Sarcinae
 - b. Tetrads
 - c. Vibrios
 - d. Coccobacilli
 - e. Staphylococcus
 - f. Streptococus
 - g. Bacillus
 - h. Spirocheates
- 3. Describe the bacterial growth curve (4mks)
- 4. Outline the procedure of the gram staining technique (4mks)
- 5. Define the following terminologies as used in bacteriology (4mks)
 - a. Nosocomial infections
 - b. Virulence
 - c. Opportunistic infections
 - d. Commensals
- 6. Outline the characteristics of Viruses (4mks)
- 7. State the Koch's postulates (4mks)
- 8. Explain the morphological forms of Fungi (4mks)
- 9. Outline the major symptoms of viral eye infections (4mks)
- 10. Describe the following types of Bacterial culture media (4mks)

SECTION B (LONG ANSWER QUESTIONS) 30MKS

- 11. Explain the pathogenesis of bacterial infections (10mks)
- 12. Describe the requirements of bacteria growth (10mks)
- 13. Describe the physical sterilization methods as used in a microbiology laboratory (41nks)