



UNIVERSITY OF JAFFNA
FACULTY OF ALLIED HEALTH SCIENCES
FIRST YEAR SECOND SEMESTER EXAMINATION IN BScHons (MLS) 2023
MLSGM 1253 GENERAL MICROBIOLOGY
PAPER II

Date: 19.06.2025

Time: 1 Hour

1.
 - 1.1. Enumerate the classification of bacteria based on the morphology with examples. (20 Marks)
 - 1.2. Briefly describe the principles of gram staining. (30 Marks)
 - 1.3. Name two medically important gram-positive and gram-negative bacteria each. (20 Marks)
 - 1.4. Briefly describe the modes of transmission for each of the bacteria mentioned in 1.3. (30 Marks)
2.
 - 2.1. Define the terms,
 - 2.1.1. Sterilization (10 marks)
 - 2.1.2. Disinfection (10 marks)
 - 2.2. Outline the various methods of sterilization. (30 marks)
 - 2.3. Briefly describe how would you sterilize the liquid culture media in a microbiology laboratory. (30 marks)
 - 2.4. List the factors influencing the performance of chemical disinfection. (20 marks)
3. Write short notes on
 - 3.1. Superficial fungal infections (30 Marks)
 - 3.2. Structure of Bacterial cell wall (40 Marks)
 - 3.3. Quality assurance in clinical microbiology laboratory. (30 Marks)
4.
 - 4.1. List five (05) factors which contribute to the emergence of antimicrobial resistance (AMR). (30 Marks)
 - 4.2. Briefly describe any two (02) mechanisms involve in developing antimicrobial resistance in bacteria. (30 Marks)
 - 4.3. Discuss the role of healthcare staff in preventing the development and spread of AMR. (40 Marks)