



Library

**UNIVERSITY OF JAFFNA, SRI LANKA**  
**BACHELOR OF SCIENCE IN MEDICAL LABORATORY SCIENCES**  
**SECOND YEAR FIRST SEMESTER EXAMINATION- JANUARY 2016**  
**MLSMM 2103 MEDICAL MICROBIOLOGY**

**PAPER II**

**Date: 26.01.2016**

**Time: 2 Hours**

**ANSWER ALL EIGHT QUESTIONS.**

**1.**

- 1.1 List five culture media used in routine microbiology laboratories. (15Marks)
- 1.2 Name the main ingredients of each culture media you mentioned in 1.1 (30Marks)
- 1.3 Give an account on uses of each ingredient you mentioned in 1.2. (55 Marks)

**2.**

- 2.1 Name four (4) gram negative bacteria that cause respiratory infections in human. (20 Marks)
- 2.2 Describe briefly how to identify each bacteria you mentioned in 2.1. in routine microbiology laboratories. (80 Marks)

**3. Write short notes on**

- 3.1 Syphilis (50 Marks)
- 3.2 Bacillary dysentery (50 Marks)

**4.**

- 4.1 Briefly explain the changes you would observe when *Escherichia coli* is cultured on TSI agar medium (30 Marks)
- 4.2 Describe two different disk diffusion methods carried out in antibiotic susceptibility testing in routine microbiology laboratories. (70 Marks)

- 5.
- 5.1 Describe a test used in the microbiology laboratory to differentiate coagulase positive and coagulase negative Staphylococci. (50 Marks)
- 5.2 Write notes on MRSA (50 Marks)
- 6.
- 6.1 Name four gram positive anaerobic bacilli which cause human infections. (20 Marks)
- 6.2 Name the disease and mode of transmission of each bacteria you mentioned in 6.1. (40 Marks)
- 6.3 Write notes on Nagler's reaction. (40 Marks)
7. Write short notes on
- 7.1 *Salmonella typhi* (50 Marks)
- 7.2 *Mycobacterium tuberculosis* (50 Marks)
- 8.
- 8.1 Define the terms 'sterilization' and 'disinfection' (10 Marks)
- 8.2 Describe 'chemical disinfectants' (40 Marks)
- 8.3 Write notes on
- 8.3.1 Autoclave (25 Marks)
- 8.3.2 Hot air oven (25 Marks)