



UNIVERSITY OF JAFFNA, SRI LANKA
FACULTY OF ALLIED HEALTH SCIENCES
SECOND YEAR FIRST SEMESTER EXAMINATION IN BScHons (MLS) – 2023
MLSMB 2133 MEDICAL BACTERIOLOGY

PAPER II

Date: 30.11.2024

Time: 2 hours

ANSWER ALL SIX QUESTIONS.

1.
 - 1.1 List the diseases caused by *Streptococcus pyogenes*. (20 marks)
 - 1.2 Name two possible immunological complications that can occur after the infection with the *Streptococcus pyogenes*. (10 marks)
 - 1.3 Describe the pathogenesis of each complication mentioned in 1.2. (40 marks)
 - 1.4 Briefly describe the laboratory methods used to identify the bacteria mentioned in 1.1 from clinical specimens. (30 marks)

2.
 - 2.1 Name four anaerobic bacteria which cause human infections. (20 marks)
 - 2.2 List the diseases caused by each of the bacteria mentioned in 2.1. (20 marks)
 - 2.3 Outline the laboratory methods used to identify the bacterial species mentioned in 2.1 (30 marks)
 - 2.4 Briefly describe the preventive measures taken to control the diseases mentioned in 2.2. (30 marks)

3.
 - 3.1 Name the bacterial species that causes leptospirosis. (10 marks)
 - 3.2 List five key characteristics of the bacteria mentioned in 3.1. (20 marks)
 - 3.3 Briefly describe the modes of transmission of the bacteria mentioned in 3.1. (40 marks)
 - 3.4 Describe the laboratory tests used to diagnose leptospirosis. (30 marks)



- 4.
- 4.1 Name two bacteria which cause blood and mucus diarrhoea in children. (10 marks)
- 4.2 Briefly describe the pathogenesis of bacteria which cause blood and mucus diarrhoea mentioned in 4.1. (30 marks)
- 4.3 Briefly describe the laboratory tests used to identify the bacteria mentioned in 4.1. (30 marks)
- 4.4 Briefly describe the measures to be taken to control blood and mucus diarrhoea. (30 marks)
5. Discuss the clinical manifestations, mode of transmission and the laboratory diagnosis of the following bacterial infections.
- 5.1 *Haemophilus influenzae* (50 Marks)
- 5.2 *Chlamydia trachomatis* (50 Marks)
6. Write short notes on
- 6.1 *Mycobacterium tuberculosis* (50 Marks)
- 6.2 Melioidosis (50 Marks)