



FACULTY OF MEDICINE, UNIVERSITY OF RUHUNA
Third Examination for Medical Degrees Part I – July 2013
MEDICAL MICROBIOLOGY - Paper II

Tuesday 16th July 2013

10.30 a.m. to 12.30 p.m.

Answer ALL FOUR questions.

Answer each question in a separate answer book.

1. Write briefly on

- 1.1 aminoglycosides. (25 marks)
- 1.2 methicillin resistant *Staphylococcus aureus* (MRSA). (25 marks)
- 1.3 endotoxins. (25 marks)
- 1.4 ventilator associated pneumonia. (25 marks)

2.

A 54 year-old female presented to the out patients department of the Teaching Hospital, Karapitiya with a history of difficulty in swallowing and fear of water. On further inquiry she gave a history of a stray dog bite 2 months back for which she had not sought medical attention. On examination the 'fan sign' was demonstrated.

- 2.1 What is the most likely clinical diagnosis? (10 marks)
- 2.2 List the ante-mortem investigations and the corresponding specimens collected to confirm the diagnosis stated in 2.1. (20 marks)
- 2.3 List the post-mortem investigations and the corresponding specimens collected to confirm the diagnosis stated in 2.1. (10 marks)
- 2.4 Briefly outline the pathogenesis of the condition stated in 2.1. (30 marks)
- 2.5 Briefly outline the post exposure prophylaxis recommended following a major exposure. (30 marks)

3. Write briefly on

- 3.1 pyrexia of unknown origin (PUO). (35 marks)
- 3.2 sterilization by heat. (30 marks)
- 3.3 onychomycosis. (35 marks)

4. State the causative pathogen/s and describe the microbiological diagnosis with special reference to collection and transport of specimens in the following conditions.

- 4.1 Urethral discharge in a 35 year-old male. (35 marks)
- 4.2 Enteric fever in a 50 year-old female. (35 marks)
- 4.3 Pharyngitis in a 6 year-old boy. (30 marks)