

UNIVERSITY OF JAFFNA, SRI LANKA
SECOND EXAMINATION FOR MEDICAL DEGREES (PART 1) February 2012
MICROBIOLOGY — Paper II

Date: 21.02.2012

Time : 2 hours
9.00 11.00am

ANSWER ALL FOUR QUESTIONS

1. **A 35 year old man presented to the Jaffna Teaching Hospital with fever & headache of 3 days duration. On clinical examination, he was found to have splenomegaly and an eschar on the perineal region.**
 - 1.1. **What is the most likely diagnosis?** (1 Waits)
 - 1.2. **State the etiological agent of this disease** (10Marks)
 - 1.3. **Describe the pathogenesis of this disease** (35Marks)
 - 1.4. **List the laboratory investigations to diagnose this disease.** (15Marks)
 - 1.5. **Mention the treatment of this disease** (10Marks)
 - 1.6. **Describe briefly the prevention of this disease** (20Marks)

2. **Explain the pathogenesis of the following infective diseases:**
 - 2.1. **Gas gangrene** (35Marks)
 - 2.2. **Tuberculosis** (35Marks)
 - 2.3. **Dengue haemorrhagic fever (DHF)** (30Marks)

3. **A 40 year old man presented to the STD clinic with urethral discharge**
 - 3.1. **List the possible causative agents** (10 Marks)
 - 3.2. **Explain the laboratory tests for confirmation of each of the microorganism mentioned in 3.1** (30 Marks)
 - 3.3. **Name the drug of choice and alternative drug for each of the organism mentioned in 3.1** (25 Marks)
 - 3.4. **Describe the mode of transmission and preventive measures of AIDS** (35Marks)

4. **4.1. "Blood culture is better than the SAT for the diagnosis of Typhoid fever"**
Discuss the above statement (30Marks)
- 4.2. Briefly compare and contrast the Hepatitis A & B viruses in relation to morphology and transmission** (20Marks)
- 4.3. Write notes on the following**
- 4.3.1. Cryptococcosis** (20 Marks)
- 4.32. Delayed hypersensitive reaction** (30 Marks)