

**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)**