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

Time: 2 hours Date: 21.02.2012 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?	(10Marks)	
	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)
		4.3.2. Delayed hypersensitive reaction	(30 Marks)