FACULTY OF MEDICINE, UNIVERSITY OF RUHUNA Third Examination for Medical Degrees Part 1 – December 2010 MEDICAL MICROBIOLOGY - Paper II

Tuesday 7th December 2010
Answer ALL FOUR questions

10.30 am to 12.30 pm

Answer each question in a separate answer book

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A 34 year old man presented with an ulcer on his external genitalia of 1 week dura	ation.
	(15 marks).
1.1 What is the differential diagnosis?	(30 marks)
1.2 Discuss how you would arrive at a clinical diagnosis in this patient.	, ,
1.3 Describe the microbiological investigations you would do to arrive at a diagno	
1.4 List the antimicrobials that can be used in the treatment of the conditions me	
y	(15 marks)
1.5 Describe the follow up measures you would take in the management of this p	bauent. (10 marks)
2. Identify the causative pathogen/s, and describe the microbiological diagnosis with	special reference
to collection and transport of specimens, in the following suspected conditions.	
2.1 Leptospirosis.	(20 marks)
2.2 Tinea capitis (kerion).	(20 marks)
2.3 Influenza.	(20 marks)
2.4 Renal tuberculosis.	(20 m a rks)
2.5 Viral diarrhoea.	(20 marks)
and discuss the emission	timicrobial therapy o
3. List the aetiological agents, outline the pathogenesis and discuss the empiric and	unincropial alorapy o
the following.	(25 marks)
3.1 Acute otitis media.	•
3.2 Septic arthritis.	(25 marks)
3.3 Urinary tract infection.	(25 marks)
3.4 Cellulitis.	(25 marks)
4. Write on	
4.1 Use of heat as a method of sterilization in hospitals.	(25 marks
4.2 Haemophillus influenzae b vaccine.	(25 marks
4.3 Use of specific immunoglobulins in the management of infectious diseases	s. (25 marks
4,0 000 0, opoum	(25 marks