

FACULTY OF MEDICINE, UNIVERSITY OF RUHUNA Third Examination for Medical Degrees (Part 1) MEDICAL MICROBIOLOGY - Paper II - Essay

Tuesday 16th December 2008

10.30 am to 12.30 pm

Answer all FOUR questions

Answer each question in a separate answer book

1.	List the appropriate microbiological investigations, describe the collection and transport of the relevant specimens and discuss the empirical antimicrobial therapy of the following conditions.		
	1.1 Pyogenic meningitis in a 6 year old child.	(35 marks)	
	1.2 Pneumonia in a young adult.1.3 Urinary tract infection in a catheterized patient.	(35 marks) (30 marks)	
2.			
	2.1 Describe the Poliovirus.	(10 marks)	
	2.2 Describe how the above virus is transmitted, its pathogenesis and the clinical manifestations.	(30 marks)	
	2.3 Describe the microbiological diagnosis of Poliomyelitis including specimen collection and transport.	(35 marks)	
	2.4 Discuss briefly the advantages and disadvantages of the vaccines available for prevention of Polio.	(25 marks)	
3.	A young married female visits the Sexually Transmitted Infections (STI) clinic complaining of a vaginal discharge of one week duration.		
	3.1 List the likely pathogens that may be the cause of her complaint.	(10 marks)	
	3.2 Describe the collection and transport of specimens to establish a microbiological diagnosis in this patient.	(20 marka)	
	3.3 Explain the pathogenesis of a bacterial and fungal agent that may be the likely cause of her complaint.	(30 marks) (30 marks)	
	3.4 Describe the antimicrobial management of the likely bacterial and fungal causes for her condition.	(20 marks)	
	3.5 Write briefly on the ethical issues involved in this situation and how you would advice those affected.	(10 marks)	
4.	Explain the pathogenesis of the following case scenarios:		
	A D BOMOSTONS in an approximational confidence	/OC	

4.1 Mycetoma in an agricultural worker.	(25 marks)
4.2 Varicella zoster in an elderly patient.	(25 marks)
4.3 Pneumonia in a HIV positive adult.	(25 marks)
4.4 Recurrent urinary tract infection in a newly married female.	(25 marks)