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UNIVERSITY OF JAFFNA, SRI LANKA

SECOND EXAMINATION FOR MEDICAL DEGREES - PART 1 (2nd)

November 2014

Microbiology Paper II

	Date: 10.11.2014	Time allowed: 2 hours	
Ans	wer all four questions.		
1)	A 21 year old man was admitted to the Teaching Hospital Jaffna with fever for 6 days associated with dull frontal headache, malaise and dry cough. His temperature on admission was 39°C and his pulse rate was 82/minute. His White blood cell count was 4000/mm ³ with 47% lymphocytes. The physician wants to exclude typhoid fever.		
	1.1 Name two differential diagnoses other than typhoid fer	ver. (10marks)	
	1.2 Discuss the microbiological tests available for the diag	gnosis of	
	Typhoid fever.	(50 marks)	
	1.3 Discuss briefly the preventive measures for typhoid fe	ver. (40marks)	
2)	A 63 year old man was investigated for recurrent lower urinary tract infection.		
	2.1 Name five bacteria that can cause urinary tract infection in this patient. (10marks)		
	2.2 Describe the possible risk factors for urinary tract infec-	ction in this	
	patient.	(20marks)	
	2.3 Describe how to collect, store and transport the specime	en from this	
	patient for microbiological diagnosis.	(40marks)	
	2.4 Discuss the choice of antibiotics in the treatment of this	patient. (30marks)	
3)	A four year old girl from Mullaitivu developed fever for 5	ar old girl from Mullaitivu developed fever for 5 days with dry cough,	
	runny nose and conjunctival suffusion. She developed generalised maculopapular		
	rash on the 4th day of fever. Her immunization history was poor and she was		
	severely malnourished. The paediatrician wants to exclude	e measles.	
	3.1 Name four infections other than measles that cause for	ever with rash	
	in this child.	(10 marks)	
	3.2 Describe briefly the mode of transmission of measles	virus. (10marks)	



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3.3 Discuss the complications of measles. (30rnarks)

3.4 Describe how to diagnose measles including both clinical and diagnostic tests.

4) 4.1 A 20 year old university student playing netball for the University developed an itchy rash over her left thigh. She had the habit of sharing the towel of her teammates. On examination it was an annular lesion with raised reddish margin. The dermatologist treated it with an antifungal agent.

4,1.1 What is the most probable diagnosis? (10marks)

4.1.2 Name two other fungi that cause dermatological infection. (10marks)

4.1.3 Describe briefly how to collect, store and transport the specimens from skin, nail and hair for fungal diagnosis. (30marks)

4.2 Write notes on antifungal agents. (50marks)

V/A



