UNIVERSITY OF JAFFNA, SRI LANKA FACULTY OF ALLIED HEALTH SCIENCES THIRD YEAR SECOND SEMESTER EXAMINATION IN BScHons (MLS) – 2021 MLSDM 3243 DIAGNOSTIC MICROBIOLOGY

Date: 16.10.2023 Time: 2 hours

ANSWER ALL FOUR QUESTIONS.

4.3 CAMP test

1. A pus swab taken from a patient with diabetic wound ulcer was microbiological culture and ABST.	
1.1 Name two primary bacterial pathogens that can be isolated from this spec	imen.
	(10 marks)
1.2 Name three bacteria which could be considered as pathogens when	
pure growth is seen on culture of this specimen.	(10 marks)
1.3 Describe how to process the above sample in a clinical microbiology laborated the sample in the	(20 marks)
	(20 marks)
1.4 Describe how to identify the pathogens mentioned in 1.1 in a	(10 1)
clinical microbiology laboratory.	(40 marks)
1.5. Briefly describe the reporting procedure of the given sample.	(20 marks)
2. A cerebrospinal fluid sample from a five-month-old child is	received for
microbiological diagnosis.	
2.1 Name three most possible bacteria which can be isolated from this specimen.	
2.1 Name three most possible bacteria which can be about a series and a	(10 marks)
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2.2 Briefly describe how you would process the above sample in a clinical	(25 montra)
microbiology laboratory.	(35 marks)
2.3 Describe how to identify the bacterial pathogens mentioned in 2.1.	(55 marks)
3. A blood sample of a 60- year- old male suspected to have typhoid fever inoculated into a blood culture bottle, was received for bacterial culture.	
3.1 Mention the details you would check when receiving blood for culture.	(10 marks)
3.2 Briefly describe how to process the blood received in the culture bottle in a clinical	
microbiology laboratory.	(40marks)
3.3 Name the bacteria which cause typhoid fever	(05 marks)
3.4 Describe how you would identify the bacteria you mentioned in 3.3 in	,
	(45 marks)
a clinical microbiology laboratory.	(43 marks)
4. Write short notes on	
4.1 KIA	(30 marks)
4.2 Analytical profile index (API)	(40 marks)
	(20

(30 marks)