BACHELOR OF MEDICAL LABORATORY SCIENCES HONOURS MDU6302 – PUBLIC HEALTH MICROBIOLOGY – LEVEL 6 FINAL EXAMINATION INDEX NO:		
PART B – Structured Essay Questions (40 Marks)		
1. Many of the foodborne pathogens are responsible may cause non-gastrointestinal illnesses following		
1.1 State four (04) foodborne pathogens that cause no example disease caused by each pathogen.	on-gastrointestinal illnesses along with an (02 marks)	
E e di ema mothe con		
Foodborne pathogen	Non-gastrointestinal illnesses	
i.		
ii.		
iii.		
iy.		
V.		
-1.2 Briefly explain three (03) different ways of transr	nission of <i>Salmonellosis</i> to human. (04 marks)	
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	INDEX NO:
1.3 With the recent change of population nerisk of spread of foodborne pathogens wo	eeds and global food market, there is an increased orldwide. State (04) reasons for this increased trend. (04 marks)
i	
	·····
ii	
iv	
	(Total: 10 Marks)
2. Total coliforms and faecal coliforms are to	raditionally being used as indicator of water quality
2.1 What are total coliforms and fecal colif	orms? (04 marks)
Total coliforms	
Fecal coliforms	

	2.2 Briefly explain why total coliforms is not a very good measure of fecal conwater.	(02 marks)
		• • • • • • • • •
		• • • • • • • • • • • • • • • • • • • •
٠. د	2.3 Compare the advantages and disadvantages of most probable number (MPN) filtration techniques used in microbial analysis of water.	method over (04 marks)
	······································	
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		I	NDEX NO:	
3. The C	Centre for Disease Co able bioterrorism age	ontrol and Prevention ents which are group	n, USA (CDC) maint ed by category A, B,	ains a list of possible and , and C.
3.1 Wha	nt is a biological war	fare?		(02 marks)
		• • • • • • • • • • • • • • • • • • •		
				• • • • • • • • • • • • • • • • • • • •

3.2 Mei biot	ntion two (02) exam errorism threat level	uple bacterial and vi	ral pathogens that ar	re categorized under each (03 marks)
		Catagory	Category B	Category C
	Bacterial agents	Category A 1.	1.	1.
	Dactorial agonts	2.	2.	2
	Viral agents	1.	1.	1.
		2.	2	2.
3.3 Bri	efly outline three (03		tegory A bioterrorisn	n agents. (05 marks)
	•••••			(Total: 10 Marks)
				(201111 20 1111110)

4.1 What are the observational studies in the context of epidemiological studies?	(02 marks)
······································	
4.2 Give four (04) examples study methods for observational studies.	
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4.3 Outline how a passive surveillance differs from an active surveillance.	(06 marks)
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//D . 1	10 37 7 .
(Lotal:	10 Marks) –

4.

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PART C – Essay Questions (30 marks)

1. Discuss different means of transmission of SARS-CoV-2 virus in community.

(15 marks)

2. Discuss the importance of new molecular based laboratory testing methods in relation to the food poisoning outbreaks. Include limitations of currently practice methods and how new molecular techniques are important to overcome these limitations.

(15 marks)