







DATE:22ND MARCH 2023

THE OPEN UNIVERSITY OF SRI LANKA

TIME: 09.30	AM - 12.30PM
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YAYD EIXY ALO	
INDEX NO:	

IMPORTANT INSTRUCTIONS/ INFORMATIONS TO CANDIDATES

- This question paper consists of 13 pages with 30 Multiple Choice Questions (Part A), 04 Structured Essay Questions (Part B) and 02 Essay Questions (Part C).
- Write your Index Number in the space provided.
- Answer ALL questions.
- Multiple Choice Questions (Part A): Indicate the best answer for each question, in the answer sheet provided by placing a cross (X) in INK in the relevant cage. (answers in pencil will **NOT** be marked)
- Structured Essay Questions (Part B): Write answers within the space provided.
- Essay Questions (Part C): Write the answer in the booklet provided.
- Do not remove any page/part of this question paper from the examination hall.
- Mobile phones and any other electronic equipment are NOT allowed. Leave them outside.

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	INDEX'NO:
P.	ART B – Structured Essay Questions (40 Marks)
1.	Fecal contamination of water is routinely detected by microbiological analysis. Investigating water samples for all the possible pathogens is impractical in routine analysis. Thereby Total coliforms, faecal coliforms and <i>Escherichia coli</i> are used as indicator organisms to monitor the faecal cont.
1	.1 Define what are "coliforms". (02 marks)
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1	.2 Briefly explain how faecal coliforms in a water sample are differentiated from total coliforms. (04 marks)
	······································
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	other coliforms.	s a more specific indicator of faecal pollution in water than (04 marks)

M.	TARINITE	
	100 857 S 30	
		(Total: 10 Marks)
2 In	oflyanza is an infactions receive	
		ratory disease caused by influenza viruses, commonly
		nual influenza vaccination is an important public health
m	easure for preventing influenza i	infection.
2.1 N	Mention two (02) natural proces ntigenically different influenza v	ss occur in influenza viruses that result in genetically/viruses. (02 marks)
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	INDEX NO:		
	2 Influenza A viruses are the only influenza virus explain the reason for this.	ses known to cause flu panden	nics. Briefly (04 marks)

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24			
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2.3	3 Briefly discuss why is it important to give seas	sonal influenza vaccine yearly.	(04 marks)
		The state of the s	

(Total: 10 Marks)

3.	Dengue is a vector borne disease endemic in Sri Lanka.	
3.	1 What is meant by "vector-borne "diseases?	(01 mark)
3.2	2 Compare and contrast the mechanical and biological vectors, giving	examples.(04 marks)
62		***************************************
3.3	Discuss vector control strategies that are used for prevention and con	ntrol of dengue in Sri
	Lanka.	(05 marks)

	INDEX NO:	
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		•••
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	(Total: 10 Marks	s)
1.	The novel coronavirus is a model for understanding what exactly a pandemic is and hor influences public health globally.	w it
1	Define the following terms used to express the rate of disease spread. State one exam	nnle
+.	disease in the Sri Lankan context to explain each event.	.p.c
	(a) Outbreak (2.5 ma	rks)
	· · · · · · · · · · · · · · · · · · ·	
	<u> </u>	
	(b) Endemic (2.5 ma	arks)
		••••
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	(c)) Epidemic	(2.5 marks)
v		·····	
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	٠		
	(d)) Pandemic	(2.5 marks)

		(Tota	ıl: 10 Marks)
PA	RT	C – Essay Questions (30 marks)	
		Discuss the importance of immunization programme in public health.	
			(15 marks)
			(
	2.	Critically evaluate the impact of changing food behaviors and globalizati	on in the
		increase of spread of food borne pathogens worldwide.	(15 marks)
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THE OPEN UNIVERSITY OF SRI LANKA
FACULTY OF HEALTH SCIENCES
DEPARTMENT OF MEDICAL LABORATORY SCIENCES
ACADEMIC YEAR 2022/2023 – SEMESTER I

BACHELOR OF MEDICAL LABORATORY SCIENCES HONOURS MDU6302 – PUBLIC HEALTH MICROBIOLOGY – LEVEL 6 FINAL EXAMINATION

ANSWER SHEET FOR PART A

1.	a b c d	11. a b c d	21. a b c d
2.	a b c d	12. a b c d	22. a b c d
3.	a b c d	13. a b c d	23. a b c d
4.	a b c d	14. a b c d	24. a b c d
5.	a b c d	15. a b c d	25. a b c d
6.	a b c d	16. a b c d	26. a b c d
7.	a b c d	17. a b c d	27. a b c d
8.	a b c d	18. a b c d	28. a b c d
9.	a b c d	19. a b c d	29. a b c d
	a b c d	20 a b c d	a b c d

