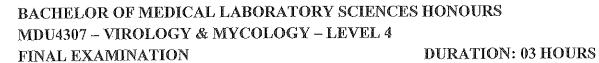
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THE OPEN UNIVERSITY OF SRI LANKA
FACULTY OF HEALTH SCIENCES
DEPARTMENT OF MEDICAL LABORATORY SCIENCES
ACADEMIC YEAR 2020/2021 – SEMESTER I



DATE:03RD MARCH 2022

TIME: 01.30PM -04.30PM

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	INDEX NO:		
PART B – Structured Essay Questions (40 M	Aarks)		
1.			
1.1 List seven (07) steps of viral replication.	(04 marks)		
i			
ii			
iii.			
iv			
v			
vi	,i		
vii			
•			
1.2 List four (04) mechanisms of innate immur	nity. (02 marks)		
i			
ii			
·iv			
1.3 List two (02) types of viral infections (definition of each.	considering the duration of infection) giving (04 marks)		
Type of infection	Definition		
i.			
ii.			
	(Total: 10 Marks)		

2.	•	
2.1	List the suffixes for different viral taxa give	en below. (02 marks)
i.	Order	
		••••••
	•	
2.2	List three (03) categories of genetic materia	d of RNA virus families that commonly infect
2.2	humans giving examples.	(06 marks)
Г		(00 marks)
	RNA genetic material	Example
-	i.	
	ii.	
	was the second of the second o	
٠		
. Ļ		
23	Describe two (02) main mechanisms of infe	ation of a host well by a best of
2.5	Describe two (02) main incentanisms of fine	• •
i		(02 marks)
ii		
•		
		(Total, 10 Maulza)

	INDEX NO:		
3. A 9-year-old child presented with multiple	circular itchy lesions in the chest an	nd abdomen.	
Dermatophyte infection was suspected in the p		-	
3.1 What is the type of dermatophyte infection	in this child?	(01 mark)	
		1:00	
3.2 List three (3) medically important fungion	causing dermatophyte infections fro		
genera.		(03 marks)	
i			
ii			
iii			
3.3 Name one (01) common site of infection for	or each fungus listed above in 3.2.	(03 marks)	
i			
ii			
iii			
111			
3.4 Describe how you would collect a sample	for fungal studies from this patient.		
	· •••••••		
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	(Total:	: 10 Marks)	

4. A 45-year-old patient with leukaemia presented with black necrotic lesions in the upper palate. Invasive fungal sinusitis was suspected in the patient.			
4.1 Name two (02) moulds commonly causing invasive infections in resp	piratory tract.		
	(02 marks)		
i			
ii			
4.2 How would you differentiate the fungi named in 4.1, based on micros	scopic features.		
<u>.</u>	(04 marks)		
	,		
	•••••		
	••••••		
4 PT 1 1 TY 1 1 1 1 1 TY 1 1 1 1 1 1 1 1 1			
4.3 Describe how you would advise the treating physician on collecti	ion and transport of		
biopsy sample collected from the sinus.	(4 marks)		

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	(Total: 10 Marks)		
	,		

PART C - Essay Questions (30 marks)

- Describe the principles/modes of actions of antiviral drugs giving examples for each
 of these. (15 marks)
- 2. Blood culture from a patient with leukaemia in ICU flagged positive. Gram stain showed budding yeast with pseudo hyphae.

How will you proceed with the identification of the yeast? The following information should be included.

The tests that would be done for identification. Findings for one species of yeast for each test.

(15 marks)