



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

**BACHELOR OF MEDICAL LABORATORY SCIENCES HONOURS  
MDU4307 – VIROLOGY & MYCOLOGY – LEVEL 4  
NO BOOK TEST**

**DURATION: 1 ½ HOURS**

**DATE: 19<sup>TH</sup> NOVEMBER 2021**

**TIME: 02.00PM – 03.30PM**

**REGISTRATION NO: .....**

**IMPORTANT INSTRUCTIONS/ INFORMATIONS TO CANDIDATES**

- This question paper consists of **11 pages** with **10 Multiple Choice Questions (Part A)**, **04 Structured Essay Questions (Part B)** and **01 Essay Question (Part C)**.
- Write your Registration 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 Question (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.

Address:

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**PART B – Structured Essay Questions (80 Marks)**

1. Viruses enter to the host cells using different mechanisms. However, there are multiple factors contribute to resulting a successful infection.

1.1. List two (02) host factors and two (02) viral factors that affect viral attachment to host tissue. (08 marks)

Host factors

- i. ....
- ii. ....

Viral factors

- iii. ....
- iv. ....

1.2 List three (03) main factors affecting viral pathogenesis and define them. (06 marks)

	Requirement	Definition
i.		
ii.		
iii.		

1.3 List four (04) innate immune mechanisms in human against viral infection. (06 marks)

- i. ....
- ii. ....
- iii. ....
- iv. ....

**(Total: 20 Marks)**

2. Diagnosis of viral infections is performed in many ways. Viruses are classified to different viral families.

2.1. List four (04) main techniques used in viral diagnosis. (04 marks)

- i.....
- ii.....
- iii.....
- iv.....

2.2. List seven (07) groups of viruses according to Baltimore classification system and give one (01) example for each of the group. (14 marks)

	Viral Group (genome structure)	Example
i.		
ii.		
iii.		
iv.		
v.		
vi.		
vii.		

2.3. List the other two (02) classification systems that are used for viral classification? (02 marks)

- i.....
- ii.....

**(Total: 20 Marks)**

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3. Fungi are complicated group organisms with several morphological forms. They are different from bacteria in their cellular make up and as well as their function.

3.1. List four (04) morphological forms of fungi. (04 marks)

- i.....
- ii.....
- iii.....
- iv.....

3.2 Briefly explain the following types of mycelia of fungi. (08 marks)

Septate mycelium

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Coenocytic mycelium

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Arial mycelium

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Vegetative mycelium

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3.3 Compare four (04) characteristic features of fungi that make them differ from bacteria. (08 marks)

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(Total: 20 Marks)

4. Most of the fungi exhibit both sexual and asexual reproduction.

4.1. List three (03) main vegetative reproduction methods demonstrated by fungi.

(03 marks)

- i. ....
- ii. ....
- iii. ....

4.2 Compare sexual and asexual reproduction in fungi.

(05 marks)

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4.3 Compare three (03) differences in black piedra and white piedra that aid in diagnosis of two infections.

(12 marks)

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**(Total: 20 Marks)**

**PART C – Essay Questions (10 marks)**

1. Explain two principles of immunization by giving examples. (10 marks)

**(Total: 10 Marks)**

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**MDU4307 – VIROLOGY & MYCOLOGY**  
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**ANSWER SHEET FOR PART A**

1. 

a	b	c	d
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2. 

a	b	c	d
---	---	---	---

3. 

a	b	c	d
---	---	---	---

4. 

a	b	c	d
---	---	---	---

5. 

a	b	c	d
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6. 

a	b	c	d
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7. 

a	b	c	d
---	---	---	---

8. 

a	b	c	d
---	---	---	---

9. 

a	b	c	d
---	---	---	---

10. 

a	b	c	d
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THE UNIVERSITY OF CHICAGO  
DEPARTMENT OF CHEMISTRY

PHYSICAL CHEMISTRY

PROFESSOR [Name]

STUDENT [Name]

DATE [Date]

TITLE [Title]

ABSTRACT [Abstract]

INTRODUCTION [Introduction]

EXPERIMENTAL [Experimental]

DISCUSSION [Discussion]

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