	SUB.CODE: 20PMB2C51									
REG.NO:					-					

Max.Marks: 75



DHANALAKSHMI SRINIVASAN COLLEGE OF ARTS & SCIENCE FOR WOMEN (AUTONOMOUS)



(For Candidates admitted from 2020-2021 onwards)

PG DEGREE EXAMINATIONS APRIL - 2021

M.Sc., - MICROBIOLOGY

ADVANCED VIROLOGY Time: 3 Hrs

		PART - A				
CHOOSE THE CORRE	CT ANSWER		(10X1=10)			
1. Viruses range in size f	rom					
a) 1 – 100 nm	b) 25 – 300 nm	c) 10 - 100µ	ım d) 1 – 10 μn			
2. Which component pre	sent in all viruses.					
a) Envelope	b) DNA	c) Capsid	d) Tail fibre			
3. Viruses are						
a) Obligate intracell	ular parasites	b) May divide by binary fission				
c) Have their own n	netabolism	d) None of the above				
4. Which of the following	g is the first step in rep	lication by bacteria pha	ases?			
a) absorption	b) Penetration	c) transcription	d) assembly and release			
5. Which of these infection	ons agents do not have	nucleic acid?				
a) Varroids	b) Viruses	c) bacteria	d) Prions			
6. Which is the most con	nmon type of biologica	l vector of human dise	ase?			
a) Viruses	b) bacteria	c) Mammals	d) arthropods			
7. Which of the following	g is a helical virus?					
a) TMV	b) T4 phage	c) Poxvirus	d) Herpes virus			
8. Viral genome inserted	to the bacterial DNA i	s termed as				
a) Lysogeny	b) Prophage	c) Lytic cyc	ele d) Virulent phage			
9. What is Corona virus?						
a) It is a large famil	y of viruses b) It	belongs to the family	of Lido virus			
c) Both A & B are o	correct d) O	only A is correct				
10. The First case of Nov	vel Corona Virus was id	dentified in				
a) Beijing	b) Shanghai	c) Wuhan Hubei	d) Tianjin			

ANSWER ALL THE QUESTIONS

(5X7=35)

11. a) Give an account on Chemical Composition of Viruses

(OR)

- b) Draw the structure & morphology characterises of Viruses
- 12. a) Illustrate the replication of virus.

(OR)

- b) Briefly explain the viral host interaction.
- 13. a) List out the importance of cell tines.

(OR)

- b) Comment on gene delivery for viruses.
- 14. a) Draw the structure and functions of Bacteriophages.

(OR)

- b) Difference between M13 and Mu phages.
- 15. a) Write a brief note on clinical diagnosis of EBOLA.

(OR)

b) How to prevent corona virus? Explain.

PART-C

ANSWER ANY THREE QUESTIONS

(3X10=30)

- 16. Describe the lifecycle of TMV.
- 17. Discuss about classification of viruses.
- 18. Give a detail notes on virus cellular interactions.
- 19. Write an essay on Tumour viruses.
- 20. Describe the Lifecycle and clinical diagnosis of HIV with suitable diagram.