<b>Enrollment No:</b>	Exam Seat No:
	C. U. SHAH UNIVERSITY

**Summer Examination-2022** 

**Subject Name : Elective-II (Virology)** 

Subject Code: 5SC04VIR1 Branch: M.Sc. (Microbiology)

Semester: 4 Date: 04/05/2022 Time: 11:00 To 02:00 Marks: 70

## **Instructions:**

- (1) Use of Programmable calculator and any other electronic instrument is prohibited.
- (2) Instructions written on main answer book are strictly to be obeyed.
- (3) Draw neat diagrams and figures (if necessary) at right places.
- (4) Assume suitable data if needed.

## SECTION - I Q-1 Attempt the following questions (07)**a.** Define Virus (01)**b.** Who was the scientist who discover the first virus? (01)**c.** Write a full name of TMV virus. (01)**d.** Enlist any two animal DNA virus. (01)e. Define bacteriophage (01)**f.** What is plaque assay? (01)g. Define: Viroid (01)Q-2 Attempt all questions **(14)** Explain technique used in isolation and cultivation of virus. (a) (07)Describe general classification and nomenclature of virus. **(b)** (07)OR **O-2** Attempt all questions **(14)** Enlist the types of bacteriophage and write a short note on M13 phage. (07)(a) Write a detailed note on antiviral drugs. **(b)** (07)0-3**(14) Attempt all questions** Write a detailed note on herpes virus and its epidemiology. (a) (07)Explain plant virus classification and nomenclature. **(b)** (07)OR Q-3 **(14)** Write a detailed note on history of virology.



## SECTION - II

Q-4		Attempt the following questions	<b>(07)</b>
	a.	What is PSTV?	(01)
	b.	Enlist two-drugs used to treat viral disease.	(01)
	c.	Which virus is the causative agent of jaundice?	(01)
	d.		(01)
	e.	Define: Retrovirus.	(01)
	f.	Define: lytic and lysogenic cycle	(01)
	g.	What is phage therapy?	(01)
Q-5		Attempt all questions	(14)
	(a)	Enlist the names of any three-plant virus and give a brief on any one.	<b>(07)</b>
	<b>(b)</b>	Write a detailed note on structure and replicative strategy of animal viruses.	(07)
		OR	
Q-5			(O=)
	(a)	Write a detailed on potato spindle tuber disease of plant.	(07)
	<b>(b)</b>	Write a brief note on HIV virus and its disease epidemiology.	(07)
Q-6		Attempt all questions	(14)
•	(a)	Write a detail note on transmission of plant viruses.	(07)
	<b>(b)</b>	Enlist the types of viral vaccines and give a short note on viral vaccination strategies.	(07)
0.6		OR	
Q-6	(a)	Write a detailed note on the plant virus and disease management.	(07)
	(a) (b)	Prepare a detailed note on application of bacteriophages.	(07)
	(0)	repare a detailed note on application of outerrophages.	(07)

