Enrollment No: Exam So	eat No:
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C.U.SHAH UNIVERSITY

Summer Examination-2019

Subject Name : Elective-II (Virology)

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

Semester: 4 Date: 18/04/2019 Time: 02:30 To 05:30 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 th	ne Following questions	(07)	
		a. Write down	n the Examples of plant viruses (any three)	01	
			n any two difference between lytic and lysogenic cycle	01	
		c. Causative a	agent of Hepatitis B	01	
		d. Define : ra	dioactivity tracers	01	
		e. Full form of	of PSTVd	01	
			n the name of antiviral drugs (any two)	01	
		g. Application	n of Bacteriophage (any two)	01	
Q-2		Attempt all qu	uestions	(14)	
_	a)	Write down in		07	
	b)	Life cycle and	structural organization of M13 bacteriophage	07	
			OR		
Q-2		Attempt all questions			
	a)		on: structure, life cycle, symptoms, transmission and liflower Mosaic Virus	07	
	b)		note on: Viral Vaccines	07	
Q-3		Attempt all qu	estions	(14)	
	a)	Write down abo	out: structure, life cycle, symptoms, and management	07	
	b)	papaya ring spo		07	
	b)	Explain: interie	erons antiviral drug OR	07	
Q-3	a)	Write down about tomato yellow	out: structure, life cycle, symptoms, and management	07	



	b)	Write TMV's structure propagation ,purification life cycle , prevention	07
		SECTION – II	
Q-4		Attempt the Following questions	(07
		a. Define: oncogene	01
		b. Write down any two examples of viroid disease.	01
		c. Define : pathogenicity	01
		d. Draw the structure of Bacteriophage	
		e. What is Haemagglutination inhibition?	01
		f. What is complement fixation?	01
		g. Full form of TMV	01
Q-5		Attempt all questions	(14)
	a)	Write Short note on: discovery of viruse	07
	b)	Write down in detail: structure, lifecycle, replicative strategies, epidemiology, pathogenicity and diagnosis of orthomyxoviruse	07
		OR	
Q-5	,		05
	a)	Briefly introduce: hepatitis	07
	b)	Prepare a note on: HIV	07
Q-6		Attempt all questions	(14
	a)	What is animal viruse? Write down the structure and lifecycle of T_3	07
		animal viruses	
	b)	Discuss: Viral cultivation	07
		OR	
Q-6		Attempt all Questions	
	a)	Write down in detail: lambda P1	07
	b)	Briefly explain: infectivity assay	07

