	Enrolln	nent No:		Exam Seat No:UNIVERSITY amination-2018			
	Subject	Name:	Elective –II (Virology)				
	Subject	Code: 5	SSC04VIR1	Branch: M.Sc. (Microbiology)			
	Semeste	er : 4	Date: 26/04/2018	Time: 10:30 To 01:30	Marks: 70		
	(2) (3)	Use of P Instruction Draw ne	rogrammable calculator and a ons written on main answer bo at diagrams and figures (if neo suitable data if needed.		prohibited.		
Q-1		SECTION – I Attempt the Following questions:					
	a.b.c.d.e.f.g.	young of HPV ca Adenov What is Gemini Bacterio	children? an cause cancer in plants. True virus contains a double strande Capsid? viridae is a family of plant vir	ed DNA genome. True/False ruses. True/False stranded DNA genomes. True/Fals			
Q-2	a b	Symmet	short notes on- ry of viruses. tions of bacteriophage		7 7		
Q-2	a b	-	describe the principal and applicate explain about cause and symp	•	7 7		
Q-3	a b	Explain	ot all questions the lytic cycle of bacteriophage explain about cause and symp	with suitable diagram. toms of potato yellow leaf curl disea OR	7 se. 7		



What are vaccines? Explain types of vaccines with suitable examples.

Q-3

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SECTION – II

Q-4			Attempt the Following questions	7
		a. Causative agent of AIDS is		
		b.	Write full form of TMV.	
		c.	λ phage is a virus, which infects liver cells. True/False	
		d.	The clumping together of red blood cells is known as hemagglutination. True/False	
		e.	A capsule is the protein shell of a virus. True/False	
		f.	Plant viruses tend to have single-stranded genomes.	
		g.	Plaque-based assays are the standard method used to determine the infectious dose of virus. True/False	
Q-5	Write short notes on-		Write short notes on-	
	a		Classification of Viruses	7
	b		TMV	7
			OR	
Q-5	a		M13	7
	b		Bacteriophage	7
Q-6			Write short notes on-	
Q U	a		Explain the prevention strategies adapted for spread of HIV.	7
	b		Explain the lysogenic cycle of bacteriophage with the suitable diagram.	7
0.6			OR	
Q-6			What is ELISA? Explain the principle ant types of ELISA with suitable diagram.	14

