P. Pages : 1 Time : Three Hour			GUG/W/23/11409 Max. Marks : 80	
Note	es: 1. 2.	1 1 5 5 1		
1.	Desci	ribe in detail icosahedral, polyhedral and helical capsid symmetry in vi OR	ruses. 16	
		e short notes on. Recent ICTV classification of viruses (as per 9 th edition, 2008).	8	
	b) l	Enveloped and nonenveloped viruses.	8	
2.	Discu	ss Haemagglutination and ELISA method for virus detection.	16	
		OR		
	a) l	Describe adsorption and precipitation.	8	
	b)]	Describe the use of embryonated eggs for cultivation of viruses.	8	
3.	Descr	tibe in detail about classification nomenclature and structure of plant vi	iruses. 16	
		OR		
	a) l	Describe the modes of transmission of plant viruses.	8	
	b) /	Add a note on viruses of algae and fungi.	8	
4.	Desci	ribe in detail pathogenicity, diagnosis prevention and treatment of HIV	. 16	
		OR		
		e note on.		
	a)]	New generation vaccines.	8	
	b) (Genetic recombinant viral vaccines.	8	
5.	Write short notes on.			
	a) l	Differentiation of virus with other groups of micro-organisms.	4	
	b) l	End point method.	4	
	c) l	Lysogenic cycle.	4	
	d) _	Antiviral drugs.	4	
