## B.Sc. (CBCS Pattern) Semester - V USMBT-11 - DSE-III - Microbiology-IV (Virology)

P. Pages: 2 Time: Three Ho			Max. Marks : 50	
1.	Disc of v	cuss Chick embryo method of virus cultivation and explain the methods of Purification rirus	n <b>10</b>	
		OR		
	a)	Write about Icosahedral symmetry of virus.	21/2	
	b)	Give general properties of Virus.	21/2	
	c)	Write a note on Viroids.	21/2	
	d)	Write about helical symmetry of virus.	21/2	
2.	Disc	cuss Lytic cycle in Bacteriophage.	10	
		OR		
	a)	Discus modes of virus transmission	21/2	
	b)	Explain alternate spicing in HIV	21/2	
	c)	Write a note on terminal cohesive ends in lambda phage	21/2	
	d)	Explain terminal redundancy in T4 phage.	21/2	
3.	Def	ine Interferon? Explain mode of action in details.	10	
		OR		
	a)	Write a note on Antiviral compound	21/2	
	b)	Write a note on proto-oncogenes	21/2	
	c)	Discuss vectors used for Virus cloning	21/2	
	d)	Explain types of oncogenic RNA viruses	21/2	
4.	Disc	cuss prevention and control of SARS-CoV in details.	10	
		OR		
	a)	Discuss prevention Influenza	21/2	
	b)	Discuss Control of Hepatitis	21/2	
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c)	Discuss prevention nCoV-19.	21/2	
d)	Give general principles of viral vaccine.	21/2	
Attempt any ten.			
a)	Define Virus.	1	
b)	Define Prion	1	
c)	Who discover virus	1	
d)	Write full form of HIV	1	
e)	Give any two example of virus containing DNA as a genetic material.	1	
f)	Give any two example of virus containing RNA as a genetic material.	1	
g)	Define Oncogenes.	1	
h)	Give any two example of viral vectors used for virus expression.	1	
i)	Give any two example of oncogenic viruses.	1	
j)	Give any two example of DNA containing viral vaccine.	1	
k)	Give any two example of RNA containing viral vaccine.	1	
1)	Who is causative agent of MERS-CoV.	1	

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