Seat No.	:	
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MN-142

March-2019

B.Sc., Sem.-VI

CC-308: Microbiology (Virology and Mycology)

Time	e : 2:3	[Max. Marks :	70		
Instr	uctio	All questions are compulsory and carries equal marks.			
			(2)	Mention correct question number against the answer.	
1.	(A)	Expla	in <i>inv</i>	vitro culture techniques for the cultivation of viruses.	14
				OR	
		(i)	Disci	uss general characteristics of viruses.	7
		(ii)	Expl	ain methods of enumeration of viruses.	7
	(B)	Answ	one or two lines : (Any four)	4	
		(i)		ne two enveloped viruses.	
		(ii)	What	t are negative sense RNA viruses?	
		(iii)	Whic virus	ch two sites of an embryonated egg is often used to grow animal ses?	1
		(iv)	Defin	ne cytopathic effect.	
		(v)	Write	e full form of ICNV.	
		(vi)	Defin	ne prions.	
2. (A) Explain lysogenic cycle of		in lys	sogenic cycle of λ phage and mechanism of establishment of lysogeny. OR	14	
		(i)	Write	e a note on host induced modifications.	7
		(ii)		ain replication of animal viruses.	7
	(B)	()		one or two lines : (Any four)	4
		(i)		at is burst size ?	
		(ii)		ne prophage.	
	7	(iii)		e a single stranded DNA phage.	
		(iv)		e an example of persistent viral infection.	
		(v)		at are Negri bodies ?	
		(vi)		e two names of plant viruses.	

3.	(A)	Expl	14	
			OR	
		(i)	Write a note on plant disease caused by fungi.	7
		(ii)	Discuss secondary metabolites of fungi and its importance.	7
	(B)	Ansv	wer in one or two lines : (Any three)	3
		(i)	What is coenocytic hyphae ?	. 4
		(ii)	Define dimorphism.	
		(iii)	What are haustoria?	
		(iv)	Name two industrially produced primary metabolites of fungi.	
		(v)	Name two yeasts pathogenic to animals.	
4.	(A)	Disc	uss sexual methods of reproduction in fungi.	14
		(i)	Discuss parasexual cycle and its significance.	7
		(ii)	Explain life cycle of basidiomycetes.	7
(B)		Ansv	wer in one or two lines : (Any three)	3
		(i)	What are chlamydospores?	
		(ii)	Define fruiting body.	
		(iii)	Write two economic importance of ascomycetes.	
		(iv)	What is clamp connection?	
		(v)	Write two names of fungi belonging to class phycomycetes.	

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