Seat No.	:	
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AI-124

April-2022

B.Sc., Sem.-VI

308: Microbiology

(Virology and Mycology)

		(virology and mycology)	
Time: 2 I	[Max. Marks: 50		
Instructio	ons: (1)	All questions in Section – I carry equal marks.	
	(2)	Attempt any Three questions in Section – I .	
	(3)	Section – II is COMPULSORY.	
	(4)	Draw figures wherever necessary.	
		Section – I	
1. (A)	Discuss str	ructure of viruses giving suitable examples.	7
(B)	Explain cr	yptogram system for classification of viruses.	7
2. (A)	Explain in	vitro culture techniques for the cultivation of viruses.	7
(B)	What are s	7	
3. (A)	Explain or	7	
(B)	Explain Ly	7	
4. (A)	Write a no	te on φX174.	7
(B)	Give gener	ral account of replication of animal viruses.	7
5. (A)	Explain se	exual spores of fungi with the help of suitable figure.	7
(B)	Explain sli	ide culture technique for cultivation of fungi.	7
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6.	(A)	Discuss primary metabolites of fungi and its importance.	7
	(B)	Write a note on animal disease caused by fungi.	7
7.	(A)	Discuss criteria used for classification of fungi.	7
	(B)	Write a note on slime molds.	7
8.	(A)	Explain life cycle of chytridiomycetes.	7
	(B)	Write salient features and economic importance of basidiomycetes.	7
		Section – II	
9.	Give	short and specific answers in 1-2 lines only (any eight):	8
	(1)	Write full form of ICNV.	
	(2)	Name two enveloped viruses.	
	(3)	Name two sites of an embryonated egg often used to grow animal viruses.	
	(4)	What are He La cells?	
	(5)	Write an example of persistent viral infection.	
	(6)	Which gene of lambda phage encodes lambda represser protein?	
	(7)	Which type of genome is present in phage MS2?	
	(8)	Name the receptor required for binding of HIV to the host cell.	
	(9)	What is haustorium?	
	(10)	Define dimorphism.	
	(11)	Name the fungi producing ergot alkaloids.	
	(12)	What is the difference between powdery mildew and downy mildew?	
	(13)	Which type of sexual spore is produced by phycomycetes?	
	(14)	Write two economic importance of ascomycetes.	
	(15)	What is cleistothecium?	
	(16)	Write two names of fungi belonging to class deuteromycetes.	

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