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L 104) B.Sc 5 TH SEMES	ATEL UNIVER TER EXAMINA CEMBER, 202	TION 2	020
SUBJECT: MICH	,		C23
2.00p.m 4.00p.m. VIROLOG	Y AND MYCOI	.0GY	Total Marks: 70
Q-1 Attempt Multiple Choice Qu	estions.	(10	Marks)
1. What is the function of a tail of	the head-and-tai	l phage?	
a) Stabilization of phage DNA		a	
c) Release of replicative enzymes			
 2. Circularization of the injected liwhich of the following? a) Polyhedral head b) Cos s c) Phage tail d) Caps 	ites in the	A molecu	le is facilitated by
3. What is true about Fd phage?			
* 0	nfects by attach	ing to the	e tip of the pilus
	All of above		
4. Acetyl choline on neurons is rec a) HIV c) Herpes virus	eptors for b) Rabies viru d) Polio virus	15	1. Becterlegites 2. Some math's entredities with
5. Which of the following is virus of	of protist which a	esemble	s tail containing
bacteriophage?			
a) virus of Uronemagigas	b) mimivirus		
c) virus of Parameeium busaria	d) none of th	ese	

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6. Fungi that grows on living bodies of other organisms is called

a) parasitic b) saprophytic

c) Heterotrophic d) None of these

7. Specialized structure haustorium is an example of which kind of hyphae?
a) intracellular
b) intercellular
c) Extracellular
d) None of these

8. The phenomenon of heterothallism in fungi was first observed in

a) Mucor	b) Aspergillus
c) Rhizopus	d) Penicillium

9. Which of the following is known as Valley fever?

a) Coccidioidomycosis b) Microspororidiosis

c) Blastomycosis d) Candidiasis

10.Fungi that trap and destroy nematodes are called as _____

a) Parasitic b) Predacious

c) saprophytic d) None of these

Q-2 A) Fill in the blanks

(04Marks)

1. Bacteriophages MS2 and QB are _____ phages (RNA/DNA)

2. Some insect viruses may form occlusion bodies comprising virions embedded within a matrix made up of...... (lipid/ protein)

3. The aseptate, multinucleated mycelium is known as ______(Eucarpic/ coenocytic)

4. Toxin produced by Aspergillus flavus is called _____ (Aflatoxin/ Ergot toxin)



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Q-2 B) Mention True / false

(04 Marks)

1. $\Phi 6$ of *Pseudomonas syringae* pathovar phaseolicola is an enveloped phage 2. Polyhedrosis viruses can also tolerate high pH values of midgut of insects.

3. Yeast is Unicellular and prokaryotic fungi.

4. A sexual hormone which attracts motile gametes is Sirenin

Q-3 Attempt any ten (10) questions in short. (20 Marks)

1. Viruses that infect bacteria were discovered independently by which two scientists?

2. Define: Burst size and latent period

3. What do you mean by temperate phage? Give example.

4. What is uncoating? How it is carried out?

5. What is CPE? What is syncytium.?

6. What are oncogenic viruses? Give examples.

7. What is dolipore septa? State its role

8. List asexual spores of fungi.

9. Differentiate between holocarpic and eucarpic fungi.

10. What are predacious fungi?

11. Name two mycotoxins and organism producing it.

12. What is trisporic acid? State its role in reproduction of fungi.

Q-4Attempt any four

(8x4=32 Marks)

1. Explain attachment and penetration of T-even phages in their host.

2. Explain one step growth curve of Delbruck.

3. Write a note on: TMV

4. Write a note on: Cytopathic effects. (CPE)

5. Write a note on: Macro and Micro nutritional requirement of Fungi

6. Explain : sexual reproduction in fungi.

7. List secondary metabolites of fungi having industrial importance and explain any two.

8. List various air born fungal diseases and explain any one in detail.



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