



Seat No. : _____

OC-103

October-2025

B.Sc., Sem.-VI

**MI-308 : Microbiology
(Virology & Mycology)**

Time : 2:30 Hours]

[Max. Marks : 70

- Instructions :**
- (1) All questions are compulsory.
 - (2) Mention correct question number against the answer.
 - (3) Draw figures wherever necessary.

1. Describe the general characteristics and structural organization of virus. 14

OR

1. (A) Write a note on prions. 7
- (B) Explain cryptogram system of virus classification. 7

2. Discuss the replication of lambda phage. 14

OR

2. (A) Describe the replication of animal virus. 7
- (B) Write a note on one step growth curve of T4 phage. 7

3. Discuss the economic importance of fungi. 14

OR

3. (A) Describe the principles of fungal nutrition. 7
- (B) Write a note on hyphal modification. 7

4. Discuss the salient features, reproduction and economic importance of Basidiomycetes. 14

OR

4. (A) Describe the criteria used for fungal classification. 7
- (B) Discuss the life cycle of Myxomycetes. 7

5. Give short and specific answers in **1-2** lines only : (any **seven**)

14

- (1) Enlist the different regions of embryonated egg for viral cultivation.
 - (2) Enlist the characters which shows virus is non-living.
 - (3) Differentiate between viroids and virusoids.
 - (4) Define : Temperate phage. Give one example.
 - (5) Give two examples of plant virus.
 - (6) What is the role of phage MS2 maturation protein ?
 - (7) Give names of 2 culture media for fungal cultivation.
 - (8) Name two poisonous fungi.
 - (9) What is eucarpic fungi ? Give one example.
 - (10) Write two economic importance of Phycomycetes.
 - (11) Give 2 examples of fungi from class Ascomycetes.
 - (12) In which fungal class mushrooms belongs ? Write one example of edible mushroom.
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