

Seat No. : \_\_\_\_\_

# AC-112

April-2023

B.Sc., Sem.-VI

## CC-308 : Microbiology (Virology & Mycology)

Time : 2:30 Hours]

[Max. Marks : 70

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

1. Write detail notes on structural organization of virus. 14  
**OR**  
(A) Explain virus cultivation in embryonated eggs. 7  
(B) Write a short note on cryptogram system of classification. 7
2. Discuss mechanism of establishment, induction and replication in lambda phage. 14  
**OR**  
(A) Explain One step growth curve and its significance. 7  
(B) Discuss replication of Tobacco Mosaic Virus with diagram. 7
3. Describe common media and slide culture technique for cultivation of fungi. 14  
**OR**  
(A) Write a short note on secondary metabolites of fungi. 7  
(B) Enlist general properties of fungal cells. 7
4. Write detail notes on 'Phycomycetes' 14  
**OR**  
(A) Explain economic importance of Basidiomycetes. 7  
(B) Discuss important criteria used for fungal classification. 7

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

**14**

- (1) Write difference between viroid and prions.
  - (2) Define continuous cell line with example.
  - (3) Give any two disadvantages of cultivation of viruses in animal cell.
  - (4) Explain term phage conversion.
  - (5) Give any two example of a single stranded DNA phage.
  - (6) Draw labelled diagram of T<sub>4</sub> Phage.
  - (7) Mention two pathogenic strains of chytridiomycetes.
  - (8) Write any two commercial use of ascomycetes.
  - (9) Mention two major parameters used in modern fungal classification.
  - (10) What is dolipore septum ?
  - (11) Give any two example of mycotoxin producers.
  - (12) Distinguish term downy mildew and powdery mildew.
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