

Seat No. : _____

JC-127

July-2021

B.Sc., Sem.-VI

308 : Microbiology

Time : 2 Hours]

[Max. Marks : 50

- Instructions :**
- (1) All questions in Section – I carry equal marks.
 - (2) Attempt any **three (3)** questions from Section – I.
 - (3) Question in Section – II are *compulsory*.
 - (4) Draw neat diagrams wherever necessary.

SECTION – I

1. (A) Describe the general characteristics of viruses. 7
(B) Enlist different systems of virus classification. Describe any one. 7
2. (A) Write a brief note on cytopathic effects. 7
(B) Describe the properties and significance of any two sub-viral entities. 7
3. (A) Describe in brief, the major steps of replication of animal viruses. 7
(B) Describe one step growth curve. 7
4. (A) Describe the characteristics and multiplication of plant viruses. 7
(B) Write a brief note on Lysogeny. 7
5. (A) Briefly describe the Asexual spores of fungi. 7
(B) Discuss the media used for the growth of fungi. 7
6. (A) Write a note on : Slide culture technique. 7
(B) Write a brief note on : Economical significance of fungi. 7
7. (A) Enlist the methods of reproduction in fungi. Write for any one method. 7
(B) Write a note on : Class Basidiomycetes. 7
8. (A) Describe briefly the major criteria used for fungal classification. 7
(B) Write a note on significance of Class Ascomycetes. 7

SECTION – II

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9. Write briefly in **one** or **two** lines : (any **eight**).
- (A) Define : Oncogenic viruses.
 - (B) Name one disease caused by fungi belonging to Class Deuteromycetes.
 - (C) Name one secondary metabolite.
 - (D) Write one significant advantage of cell culture technique.
 - (E) Write name of one disease caused by slow virus.
 - (F) Write one method used for the enumeration of viruses.
 - (G) Name the type of nucleic acid found in MS2 viruses.
 - (H) Give a peculiar characteristic of fungi belonging to the Class Phycomycetes.
 - (I) What is a secondary cell line ?
 - (J) Give two characteristics of TMV.
 - (K) Write name of one disease caused by slow viruses.
 - (L) Give the names of two animal viruses,.
 - (M) Name an enzyme involved in penetration of animal viruses.
 - (N) Name one disease caused by Prions in human being.
 - (O) Write name of one fungal disease observed in animals.
 - (P) Name an antibiotic used to prevent bacterial contamination in fungal media.
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