

B.Sc. Sem-6 Examination

CC 308

Microbiology

October 2021

Time : 2-00 Hours]

[Max. Marks : 50

Instructions :

- i. All questions in section -1 carry equal marks
- ii. Attempt any three questions from section-1.
- iii. Questions in section-2 are compulsory
- iv. Illustrate your answers with neat diagrams wherever necessary.

Section1.

- | | | |
|-----|--|----|
| Q-1 | A Describe the general structure of viruses | 07 |
| | B Describe the cryptogram systems of virus classification. | 07 |
| Q-2 | A Discuss the cultivation of viruses in tissue culture and its significance. | 07 |
| | B Describe the properties and significance of any two sub viral entities. | 07 |
| Q-3 | A Describe in brief, the major steps of replication of animal viruses. | 07 |
| | B Write a brief note on lysogeny | 07 |
| Q-4 | A Write in brief for the multiplication of plant viruses. | 07 |
| | B Write a brief note on single stranded RNA phages. | 07 |
| Q-5 | A Briefly describe the sexual spores of fungi. 07 | |
| | B Discuss the characteristics of media required for the growth of fungi. | 07 |
| Q-6 | A Write a note on slide culture technique. | 07 |
| | B Write a brief note on secondary metabolites of fungi. | 07 |

E428-2

- Q-7 A Enlist the methods of reproduction in fungi. Write for any one method 07
B Write for the characteristic features of class Ascomycetes. 07
- Q-8 A Write briefly on major criteria used for fungal classification. 07
B Write a note on significance of class Deuteromycetes. 07

SECTION -2

- Q-9 Write briefly in one or two lines (Any eight) 08
- (A) Define: Viroids.
 - (B) Name one disease caused by fungi belonging to class zygomycetes.
 - (C) Name one primary metabolite.
 - (D) Write one significant advantage chick embryo technique.
 - (E) Write name of one disease caused by slow virus.
 - (F) Name the type of nucleic acid found in MS-2 viruses.
 - (G) Write one peculiar characteristic of fungi belonging to class Phycomycetes.
 - (H) Name one cytopathic effect.
 - (I) Write names of two animal viruses.
 - (J) Name one enzyme involved in penetration of animal viruses
 - (K) Name one disease caused by Prions in human being.
 - (L) Write name of one fungal disease observed in animals.
 - (M) Name one antibiotic used to prevent bacterial contamination in fungal media.
 - (N) Write names of two media used for fungal cultivation.
 - (O) What are primary metabolites?
 - (P) Name one criterion used in fungal classification.
