



K22U 1067

Reg. No. :

Name :

II Semester B.Sc. Degree (C.B.C.S.S. – Supplementary)

Examination, April 2022

(2016-2018 Admissions)

CORE COURSE IN MICROBIOLOGY

2B02 MCB : Microbial Taxonomy

Time : 3 Hours

Max. Marks : 40

Instruction : Draw diagrams wherever necessary.

SECTION – A

(Answer **all** questions. **Each** question carries **1** mark.)

1. The five kingdom classification was proposed by _____
2. The spores produced at the tips or sides of the hyphae of molds are called _____
3. The deposits of the shells of diatoms resulting from centuries of growth are called _____
4. The nature of the genetic material of phage $\phi 6$ is _____ **(4×1=4)**

SECTION – B

(Answer **any seven** questions. **Each** question carries **2** marks.)

Comment on the following :

5. Similarity matrix
6. G+C mol%
7. Euryarchaeota

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8. Deinococci
9. Slime molds
10. Diatoms
11. Sarcomastigophora
12. Retroviruses
13. Dendrogram
14. Oligonucleotide signature sequences.

(7×2=14)

SECTION – C

(Write short notes on **any four** of the following. **Each** question carries **3** marks.)

15. Three kingdom classification.
16. Characteristics of major groups of plant viruses.
17. β -Proteobacteria.
18. IMViC test.
19. Objective and practical value of microbial taxonomy.
20. Characteristics and classification of fungi.

(4×3=12)

SECTION – D

(Write essays on **any two** of the following. **Each** question carries **5** marks.)

21. Write a note on characteristics of different groups of Gram Positive Eubacteria.
22. Discuss the characteristic features of different groups of algae with suitable examples.
23. Define numerical taxonomy. Discuss the steps involved in numerical taxonomy of microorganisms.
24. What are the criteria used for the classification of viruses ? Write a note on classification of animal viruses.

(2×5=10)
