



**K21U 3617**

Reg. No. : .....

Name : .....

**II Semester B.Sc. Degree (CBCSS – Supple.) Examination, April 2021**

**(2014 – 2018 Admission)**

**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 nature of genetic material of T4 phages is
2. The shells of diatoms are called
3. The compact masses of hyphae produced to survive the winter by some filamentous fungi are called
4. Short, conserved nucleotide sequences in SSU rRNAs that are specific for phylogenetically defined groups of organisms are called **(4×1=4)**

**SECTION – B**

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

Comment on the following :

5. Distinguish photoautotrophs and chemoautotrophs.
6. Dendrogram.
7. Crenarcheota.
8. Purple non-sulfur bacteria.
9. Protists.
10. Coenocytic hyphae.
11. Glomeromycetes.
12. Zooflagellates.
13. Icosahedral capsid.
14. Phaeophycophyta. **(7×2=14)**

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SECTION – C

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

15. Numerical taxonomy.
16. Bergey's manual of systematic bacteriology.
17. Actinomycetes.
18. Classification of protozoa.
19. Classification of bacteriophages.
20. Dinoflagellates.

(4×3=12)

SECTION – D

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

21. Write a note on criteria used for classification of micro-organisms.
22. Discuss the characteristics and classification of plant viruses.
23. Discuss the difference between Archaeobacteria and Eubacteria. Give an account of different groups of Archaeobacteria.
24. Describe general characteristics of fungi. Add a note on classification of fungi.

(2×5=10)

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