



K21U 3475

Reg. No. :

Name :

**II Semester B.Sc. Degree (CBCSS – OBE – Reg./Sup./Imp.)
Examination, April 2021
(2019 Admission Onwards)
Core Course in Microbiology
2B02MCB : MICROBIAL DIVERSITY**

Time : 3 Hours

Max. Marks : 40

Instruction : *Wherever needed answers must be supported by structural illustrations and diagrams.*

PART – A

Short answer type questions. Answer **all** questions. **Each** question carries **1** mark.

1. What is MTCC stands for ?
2. Who proposed the three kingdom system of classification ? Which are they ?
3. What is metagenomic analysis ?
4. Give one example of dsDNA viruses.
5. What is cytopathic effect ?
6. What is a Coliphage ?

(6×1=6)

PART – B

Short essay type questions. Answer **any six** questions. **Each** question carries **2** marks.

7. What are ciliated protozoans ? Give one example.
8. Sac fungi.
9. Phenetic classification.
10. Cladogram.

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11. What is 16s rRNA gene sequencing ? Why is 16s rRNA used for bacterial identification ?
12. Euglenoids.
13. Serotyping.
14. TMV. **(6×2=12)**

PART – C

Essay type questions. Answer **any four** questions. **Each** question carries **3** marks.

15. What does G C content mean ? How it is measured ?
16. Explain DNA hybridization. How does DNA hybridisation support evolution ?
17. Difference between Zoospores and Aplanospores.
18. Describe the Baltimore classification of virus.
19. What are the classifications of algae ?
20. Explain various morphological, biochemical and staining methods in bacterial classification. **(4×3=12)**

PART – D

Long essay type questions. Answer **any two** questions. **Each** question carries **5** marks.

21. Explain the structure, morphology and replication cycle of viruses.
 22. Explain the general characteristics and classification of protozoa.
 23. What are the different types of eubacteria ? Discuss the characteristics of eubacteria.
 24. Write in detail about the classification of bacteria adopted by Bergy. **(2×5=10)**
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