



K20U 0475

Reg. No. :

Name :

II Semester B.Sc. Degree CBCSS (OBE)- Regular Examination, April 2020
(2019 Admission)

Core Course in Microbiology
2B02 MCB : 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 a strain ?
2. What is ATCC stands for ?
3. What does GC content mean ?
4. Cyanophage.
5. Teliospores.
6. What are the 7 levels of taxonomy ?

(6×1=6)

PART – B

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

7. Numerical taxonomy.
8. Phylogenetic tree.
9. Sporozoans.
10. Fungi imperfecti.



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11. Retroviridae.
12. Temperate phages.
13. Jaccard coefficient.
14. Diatoms.

(6×2=12)

PART – C

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

15. Briefly describe various ways of protozoan reproduction.
16. Explain molecular methods in microbial taxonomy.
17. Explain the importance of Bergey's Manual in bacterial taxonomy.
18. What is a bacteriophage made of ? Explain phage typing.
19. What is 5 Kingdom of classification ? Explain the characteristics of each kingdom.
20. Write on outline classification of algae by Fritsch.

(4×3=12)

PART – D

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

21. Explain various criteria used in bacterial classification.
22. Classify fungi, with a note on economic importance of fungi.
23. What are various ways of virus classification ? Briefly explain the classification of virus on the basis of nucleic acid.
24. Differentiate between eubacteria and archaeobacteria. Add a note on important groups of archaeobacteria.

(2×5=10)