



K20U 0317

Reg. No. :

Name :

II Semester B.Sc. Degree (CBCSS – Supplementary/Improvement)
Examination, April 2020
CORE COURSE IN MICROBIOLOGY
2B02 MCB : Microbial Taxonomy
(2014-2018 Admissions)

Time : 3 Hours

Max. Marks : 40

Instruction : Draw diagrams *wherever* necessary.

SECTION – A

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

1. In microbiology the _____ is a collection of strains that share many stable properties and differ significantly from other groups of strains.
2. The Three kingdom classification was proposed by _____
3. The fungi that exist in yeast and mold forms are called _____
4. The red algae are classified under _____ division of algae. (4×1=4)

SECTION – B

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

Comment on the following :

5. Polyphasic taxonomy.
6. Serotypes.
7. Aplanospores.
8. Cryptomonads.
9. Zygosporoes.

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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 archaebacteria. Add a note on important groups of archaebacteria.

(2×5=10)
