



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. Zygosporangia.

P.T.O.



10. Schizosaccharomyces.
11. Distinguish positive strand and negative strand RNA viruses.
12. Reverse transcription.
13. Simple matching coefficient.
14. Ribotyping.

(7×2=14)

#### SECTION – C

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

15. Five kingdom classification.
16. Molecular characteristics used for microbial classification.
17. Phylogenetic tree.
18. Classification of plant viruses.
19. Archaeobacteria.
20. General characteristics of major divisions of algae.

(4×3=12)

#### SECTION – D

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

21. Write a note on classification of protozoa.
22. Discuss the differentiating characteristics of major groups of Proteobacteria.
23. Discuss the characteristics and classification of animal viruses.
24. Describe the various criteria used for classification of microorganisms under phenetic system.

(2×5=10)

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