



paper
2022

K18U 0508

Reg. No. :

Shewin

Name :

II Semester B.Sc. Degree (CBCSS-Reg./Supple./Imp.)
Examination, May 2018
CORE COURSE IN MICROBIOLOGY
2B02 MCB : Microbial Taxonomy
(2014 Admn. Onwards)

Time : 3 Hours

Max. Marks : 40

SECTION - A

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

1. Three kingdom classification was proposed by _____
2. The microorganisms growing optimally at high pressure regions are called _____
3. The capsid shape of TMV is _____
4. The genome of $\emptyset \times 174$ phage infecting E. coli is _____ (4x1=4)

SECTION - B

(Answer **any seven** of the following. **Each** question carries **2** marks.)

5. What is ribotyping ?
6. What is simple matching coefficient ?
7. What are stromatolites ?
8. What are the characteristics that differentiate viruses from living cells ?
9. Differentiate Eubacteria and Archaeobacteria ?

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10. What are slime molds ?
11. Define photoautotrophic lithotrophs.
12. What are mycoplasmas ?
13. Name plant viruses with DNA genome.
14. What are diatoms ? Give example.

SECTION - C

(7×2=14)

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

15. Five kingdom classification.
16. Phylogenetic tree.
17. Archaeobacteria.
18. Classification of algae.
19. DNA hybridization.
20. Characteristics of sporozoans.

SECTION - D

(4×3=12)

- (Answer **any two** of the following. **Each** question carries **5** marks.)
21. Define numerical taxonomy. Discuss various criteria used for bacterial classification.
 22. What are the criteria used in classification of viruses ? Describe the characteristics of major groups of animal viruses.
 23. Write a note on classification of fungi.
 24. Write briefly on Bergey's manual of systematic bacteriology. Describe characteristics of major groups of Gram negative eubacteria.

(2×5=10)