



K19U 0272

Reg. No. :

Name :

**II Semester B.Sc. Degree (CBCSS-Reg./Supple./Improv.)
Examination, April 2019**

**(2014 Admission Onwards)
CORE COURSE IN MICROBIOLOGY
2B02 MCB : Microbial Taxonomy**

Time : 3 Hours

Max. Marks : 40

SECTION – A

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

1. Five kingdom classification was proposed by _____
2. The organism growing optimally at high salt concentration is called _____
3. The grouping of organisms based on similarity of their phenotype is called _____
4. The genome of nanoavirus infecting plants is _____ **(4×1=4)**

SECTION – B

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

5. Define serotyping.
6. Differentiate between simple matching coefficient and Jaccard coefficient.
7. What are temperate phages ?
8. Differentiate eukaryotic and prokaryotic cells.
9. Define dimorphism in fungi.

P.T.O.



10. What are slime molds ?
11. What are the major characteristics used in viral classification ?
12. What are molecular chronometers ?
13. What is the practical significance of taxonomy ?
14. Define bacterial species.

(7×2=14)

SECTION – C

(Answer **any four** of the following. **Each** question carries **3** marks.)

Write short notes on :

15. IMViC reactions.
16. Bergey's manual of systematic bacteriology.
17. Molecular characteristics used in microbial classification.
18. Proteobacteria.
19. Classification of plant viruses.
20. Dinoflagellates.

(4×3=12)

SECTION – D

(Answer **any two** of the following. **Each** question carries **5** marks.)

21. Discuss the steps involved in numerical taxonomy of micro-organisms.
22. Write a note on classification of protozoa.
23. Distinguish between Eubacteria and Archaeobacteria. Describe the characteristics of major groups of Archaeobacteria.
24. Discuss the classification of animal viruses.

(2×5=10)
