M 8783

Reg. No. : ....

Name : ....

II Semester B.Sc. Degree (CCSS – 2014 Adm. – Regular)
Examination, May 2015
Core Course in Microbiology
2 B02 MCB : MICROBIAL TAXONOMY

Time : 3 Hours   Max. Marks : 40

Instruction : *Draw diagrams* **wherever** *necessary.*

SECTION – A

Answer **all** questions. **Each** question carry **1** marks.   **(4×1=4 Marks)**

1. Strains of a bacterial species differing in antigenic properties are called _____

2. Stratified rocks formed by incorporation of mineral sediments into microbial mats are called _____

3. Three kingdom classification was proposed by _____

4. _____ is an example for holozoic nutrition.

SECTION – B

Answer **any seven** of the following in **one** or **two** sentences. **Each** question carry **2** marks.   **(7×2=14 Marks)**

5. Binary fission

6. TMV

7. Arthrospores

8. Ribotyping

9. Mesophiles

Bacteriophage

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11. Simple matching coefficient.

12. Mycoplasma

13. Myxamoeba

14. Binomial nomenclature.

SECTION – C

Answer **any four** of the following. **Each** question carry **3** marks. (4×3=12 Marks)

Write short notes on :

15. Phylogenetic tree

16. Bergey's Manual

17. IMViC test

18. Phylum Ciliophora.

19. Five kingdom classification

20. Morphological classification of bacteria.

SECTION – D

Answer **any two** of the following. **Each** question carry **5** marks. (2×5=10 Marks)

Write essays on :

21. Define numerical taxonomy. Discuss the molecular techniques used for identification and classification of bacteria.

22. What are the major divisions of Algae ? Discuss the characteristics of each division.

23. Describe the differences between eubacteria and archaeobacteria. Write a note on major groups of archaeobacteria.

24. Write a note on morphological forms of viruses. Discuss the properties of major groups of animal viruses.