K16U 1228

Reg. No. : ....

2022

Name : ....

II Semester B.Sc. Degree (CCSS – Reg./Supple./Improv.) Examination, May 2016
Core Course in Microbiology
2B02 MCB : MICROBIAL TAXONOMY
(2014 Adm. Onwards)

Time : 3 Hours

Max. Marks : 40

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

SECTION – A

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

1. Specialized, dormant, thick-walled resting cells of Cyanobacteria resistant to desiccation is called ___akinetes___ .

2. The technique used to identify bacterial strains with antigenic variation is ___serotyping___

. The fungi commonly known as the 'sac fungi' are grouped under ___Ascomycete___

. The zygote formed during reproduction of apicomplexans become thick-walled structure called ___Oocysts___ .

SECTION – B

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

5. Trypanosomes.

6. Icosahedron.

7. Oligonucleotide signature sequences.

8. Dendrogram.

P.T.O.

9. Prions.

10. Melting temperature (Tm)

11. Saprozoic nutrition.

12. Encystation.

13. Dinoflagellates.

14. Polyphasic taxonomy.

SECTION – C

Answer **any four** of the following. **Each** question carry **3** marks.

(4×3=12)

Write short notes on :

15. Characteristics of Actinomycetes.

16. Morphological forms of bacteriophages.

17. Plant viruses.

18. Nucleic acid hybridization.

19. Characteristics of chlorophyta.

20. Halobacteria.

SECTION – D

Answer **any two** of the following. **Each** question carry **5** marks.

(2×5=10)

Write essays on :

21. Discuss the characteristic features of protozoan phyla with examples.

22. What are the major differences between bacteria and fungi ? Write a note on classification of fungi.

23. What is meant by phenetic system of classification ? Describe the criteria used for classification of microorganisms using phenetic system.

24. Define numerical taxonomy. Describe the various steps involved in the classification of microorganisms.

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