



**K20U 1540**

Reg. No. : .....

Name : .....

**V Semester B.Sc. Degree (CBCSS-Reg./Sup./Imp.) Examination,  
November 2020**

**(2014 Admn. Onwards)**

**CORE COURSE IN MICROBIOLOGY  
5B09 MCB Environmental Microbiology**

Time : 3 Hours

Max. Marks : 40

**SECTION – A**

(Answer **all** the **four** questions)

1. The process in which one microbe produce some substance which affects the growth and viability of another microbe is called \_\_\_\_\_
2. Microorganisms living in high pressure environments are called \_\_\_\_\_
3. Name the genetically modified bacterium that has the capacity to degrade multiple types of hydrocarbons.
4. Name a symbiotic nitrogen fixing bacteria. (4×1=4)

**SECTION – B**

(Answer very briefly on **any seven** questions out of ten)

Comment on the following.

5. Biogeochemical cycle.
6. Predation.
7. Estuarine microbes.
8. Biomagnification.
9. Food web.
10. Infectious dust.
11. *Thiobacillus thiooxidans*.
12. Ammonification.
13. Microbial leaching
14. Super bug.

**(7×2=14)**

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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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