



K24U 2757

Reg. No. :

Name :

**V Semester B.Sc. Degree (CBCSS – OBE – Regular/Supplementary/
Improvement) Examination, November 2024
(2019 to 2022 Admissions)
CORE COURSE IN MICROBIOLOGY
5B09 MCB : Environmental Microbiology**

Time : 3 Hours

Max. Marks : 40

SECTION – A

Answer **all** questions in **one** or **two** sentences. **Each** question carries **1** mark. **(6×1=6)**

1. Ammonification.
2. Antagonism.
3. Droplet nuclei.
4. Slit sampler.
5. Ecosystem.
6. Algal bloom.

SECTION – B

Write briefly on **any six** of the following. **Each** question carries **2** marks. **(6×2=12)**

7. Dissolved oxygen.
8. Microbial biofilm.
9. Bioleaching.
10. Polychlorinated biphenyls.
11. Biological nitrogen fixation.

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12. Bacterial Predation.
13. Air Impingement.
14. Importance of biogeochemical cycle.

SECTION – C

Write short essays on **any four** of the following. **Each** question carries **3** marks. **(4×3=12)**

15. Estuarine ecosystem.
16. Discuss the ways by which microbes transmitted in air.
17. Synthetic polymers.
18. What is meant by bio-corrosion ?
19. Concepts of Bio-magnification.
20. In-situ and ex-situ bioremediation.

SECTION – D

Write essays on **any two** of the following. **Each** question carries **5** marks. **(2×5=10)**

21. Elaborate on the positive microbial interactions and their significance, providing suitable examples.
 22. Discuss the microbial degradation of xenobiotic compounds with suitable examples.
 23. Write an essay on physical factors affecting aquatic life and distribution of microbes in fresh water ecosystem.
 24. Comment on the phosphorus cycle and its significances.
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