



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)

P.T.O.



SECTION – C

(Answer **any four** questions out of six briefly)

15. Bioremediation.
16. Comment on energy flow in ecosystem.
17. Carbon cycle.
18. Write briefly about the methods used for microbiological sampling of air.
19. What are the factors influencing microbial growth and distribution in aquatic environment ?
20. Comment on bio-films and its significance. (4×3=12)

SECTION – D

(Answer **any two** questions out of four).

21. Write an essay on soil microbial interactions with proper examples.
 22. Explain nitrogen cycle.
 23. Comment on microbiology of xenobiotics.
 24. Discuss the distribution and role of microorganisms in various aquatic ecosystems. (2×5=10)
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