K17U 1702

Reg. No. : .....

Name : .....

V Semester B.Sc. Degree (CBCSS – Reg./Sup./Imp.)
Examination, November 2017
(2014 Admn. Onwards)
CORE COURSE IN MICROBIOLOGY
5B09 MCB : Environmental Microbiology (Elective)

Time : 3 Hours Max. Marks : 40

***Instruction** : Answers are to be written **only** in **English**.*

SECTION – A

Answer **all the four** questions :

1. The interaction between two species in which one species benefits and the other remain neutral is known as _____
2. Morphological form of Rhizobium seen in root nodules of leguminous plants _____
3. Specialized cells present in the trichome of cyanobacteria that are the sites of N_2 fixation _____
4. Microbial inhabitants of the bottom region of a water body are _____ **(4×1=4)**

SECTION – B

Answer very briefly on **any seven** questions out of ten :

5. Droplet nuclei.
6. Denitrification.
7. Write briefly on Thiobacillus thiooxidans.
8. Eutrophication.
9. Antagonism.

P.T.O.

10. What is biogeochemical cycling ?

11. Bio remediation.

12. Role of microbes in aquatic ecosystems.

13. Global warming.

14. How free living bacteria involved in N_2 fixation ? (7×2=14)

SECTION – C

Answer **any four** questions out of six briefly :

15. Microbes involved in bioleaching.

16. Explain Ammensalism with examples.

17. Bio-degradation of Xenobiotics.

18. Microbial films.

19. Explain the symbiotic relationship between microorganisms in soil.

20. Microbes in fresh water environment. (4×3=12)

SECTION – D

Answer **any two** questions out of four :

21. Explain the importance of Carbon cycle.

22. Explain various methods of Sampling of Air.

23. Write a note on process of Bioleaching.

24. Describe Symbiotic N_2 fixation in detail. (2×5=10)
