

**D 71083**

**(Pages : 2)**

**Name**

**Reg. No. ....**

**FIFTH SEMESTER B.Sc. DEGREE EXAMINATION  
NOVEMBER 2014**

**(UG-CCSS)**

**Open Course – Microbiology**

**MB 5D 02 – ENVIRONMENTAL MICROBIOLOGY**

Time : Three Hours

Maximum : 30 Weightage

**Section A**

*Answer all the **twelve** questions.*

1. In an ecosystem decomposer air \_\_\_\_\_
2. Percentage of nitrogen fixed annually on earth by the action of bacteria is \_\_\_\_\_
3. Example for a symbiotic nitrogen fixer is \_\_\_\_\_
4. Bacteric responsible for denitrification are \_\_\_\_\_
5. Ammonia oxidising bacteria are \_\_\_\_\_
6. \_\_\_\_\_ forms root nodules.
7. Anaerobic non-symbiotic nitrogen fixing organisms.
8. \_\_\_\_\_ has been used for centuries to enrich rice paddies.
9. Full form of TMV.
10. Example for a water borne illness is \_\_\_\_\_
11. The type of cancer occurring due to ozone depletion.
12. Green house effect is due to the gas \_\_\_\_\_

(12 x ¼ = 3 weightage)

**Section B**

*Answer all the **nine** questions in one **or** two sentences.*

Comment on :

- |                   |                       |
|-------------------|-----------------------|
| 13. Nitrogenase.  | 14. Membrane filter.  |
| 15. Autotrophs.   | 16. Food web.         |
| 17. Root nodules. | 18. BOD.              |
| 19. Habitat.      | 20. Osmotic pressure. |
| 21. Rhizosphere.  |                       |

(9 x 1 = 9 weightage)

**Turn over**

**Section C**

*Answer briefly any **five** questions.*

22. Air borne micro-organisms.
23. Biomagnification.
24. Coliform bacteria.
25. Water borne illness.
26. *Rhizobium*.
27. GMO.
28. Micro-organisms in sewage treatment.

(5 x 2 = 10 weightage)

**Section D**

*Answer any **two** questions in detail.*

29. Explain the impact of water pollution in human health.
30. Explain the different **Biogeochemical** cycles and their importance.
31. Explain/elaborate on the Global environmental problems, their impact and approaches for management.

(2 x 4 = 8 weightage)

