

D 91072

(Pages : 2)

Name.....

Reg. No.....

**FIFTH SEMESTER B.A./B.Sc./B.Com. DEGREE EXAMINATION  
NOVEMBER 2015**

(UG—CCSS)

Open Course

**MB 5D 02—ENVIRONMENTAL MICROBIOLOGY**

Time : Three Hours

Maximum : 30 Weightage

**Section A**

*Answer all the twelve questions.  
Each question carries  $\frac{1}{4}$  weightage.*

1. Microbial interaction where one get benefitted and other get harmed are called\_\_\_\_\_
2. ~~Cholera is caused by~~\_\_\_\_\_ ~~bacterium.~~
3. \_\_\_\_\_ ~~is a free nitrogen fixing bacteria.~~
4. ~~Xenobiotics are resistant to~~\_\_\_\_\_
5. Full form of BOD.
6. Formula of ozone.
7. ~~Alkalophiles lives in~~\_\_\_\_\_ ~~pH.~~
8. ~~Organism which produce food in an ecosystem termed~~\_\_\_\_\_
9. ~~Minamata disease was caused by pollution of water by~~\_\_\_\_\_
10. ~~Flesh eating animals in ecosystems are~~\_\_\_\_\_
11. ~~The main cause of green house effect is~~\_\_\_\_\_
12. Full form of GMO.

(12 x  $\frac{1}{4}$  = 3 weightage)

**Section B**

*Answer all the nine questions in one or two sentences.  
Each question carries 1 weightage.*

- |                     |                            |
|---------------------|----------------------------|
| 13. Synergism.      | 14. Coliform.              |
| 15. pH.             | 16. Rhizosphere.           |
| 17. COD.            | 18. Food web.              |
| 19. Acid rain.      | 20. Ozone layer depletion. |
| 21. Eutrophication. |                            |

x 1 = 9 weightage)

Turn over

**Section C**

*Answer briefly any **five** questions.  
Each question carries 2 weightage.*

22. Water born diseases.
23. Indicator organisms.
24. Discuss about recent aspects of water pollution.
25. Acid rain.
26. Write briefly on energy flow in the ecosystem.
27. Oxidation ponds.
28. Trickling filters.

(5 x 2 = 10 weightage)

**Section D**

*Answer any **two** questions in detail.  
Each question carries 4 weightage.*

29. Write notes on various global environmental problems and their biotechnological approaches for management.
30. Ethical issues concerned with the release of **GMOs** to the environment.
31. Define **biogeochemical** cycle. Explain with Nitrogen cycle.

(2 x 4 = 8 weightage)

10/11/20