

D 30723

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Name.....

Reg. No.....

FIFTH SEMESTER B.Sc. DEGREE EXAMINATION, OCTOBER 2012

(CCSS)

Microbiology

MB 5D 02—ENVIRONMENTAL MICROBIOLOGY

Time : Three Hours

Maximum : 30 Weightag

Section A

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

Write the full form of the following.

1. MPN.
2. COD.
3. BOD.
4. DO.
5. GMO.
6. Name the gas responsible for green house effect.
7. Indicator micro organisms of fecal pollution in water is _____
8. Producer's in a food chain are _____
9. An endophytic bacteria associated within the root nodules of leguminous plant is _____
10. Example for a water borne disease is _____
11. _____ is a GMO which is commonly known a super bug.
12. At which stage of waste water treatment microorganism are involved ?

(12 x = 3 Weightag

Section B

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

Comment on :

13. Decomposers.
14. Mutualism.
15. Ecosystem.
16. *E.Coli.*
17. Acid rain.
18. Hydrostatic pressure.
19. Ozone depletion.

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20. *Bacillus thuringiensis*.
21. Droplet nuclei.

(9 x 1 = 9 Weightage)

Section C

Answer briefly.

Write Short Notes on—any five questions.

22. Phosphorous cycle.
23. Green house effect.
24. Trickling filters.
25. Microbiological examination of water.
26. Food chain.
27. Rhizosphere.
28. Xenobiotics.

(5 x 2 = 10 Weightage)

Section D

Answer any two questions in detail.

29. Explain in details different trophic levels in a food chain and also the energy transfer between trophic levels.
30. Environmental factors influencing growth and survival of microorganisms.
31. Give a detailed account on air borne microorganisms, techniques in air sampling and microbiological examination of air.

(2 x 4 = 8 Weightage)