

C 4699

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Name

Reg. No.

SECOND SEMESTER M.Sc. DEGREE EXAMINATION, JUNE 2016

(CUCSS)

General Biotechnology

GB 2C 3—ENVIRONMENTAL BIOTECHNOLOGY

(2010 Admissions)

Time : Three Hours

Maximum : 36 Weightage

Section A (Very Short Answer Type)

*Answer **all** questions.
Each with weightage 1.*

1. BOD.
2. Recalcitrancy.
3. Methane seepage in landfills.
4. VAM.
5. Chloro Fluorocarbon.
6. Food web.
7. Types of earthworms in vermi composting.
8. Break point chlorination.
9. Impacts of oil spillage on biotic component in the sea.
10. Biosorption.

(10 x 1 = 10 weightage)

Section B

*Answer any **seven** questions.
Each with weightage 2.*

11. Production of hydrogen from biomass.
12. Properties, source and advantages of PHB.
13. Effects of acid rain.
14. Formation of root nodule.

Turn over

15. Phosphate solubilising bacteria.
16. Ex-situ bioremediation.
17. Describe the working of a trickling filter with labeled diagrams.
18. Treatment of hazardous wastes.
19. In-situ bioremediation.
20. Sources of water pollution.

(7 x 2 = 14 weightage)

Section C

*Answer any two questions.
Each with weightage 6.*

21. Explain Biopesticides and their mechanism of action.
22. Describe the microbial mechanism of Xenobiotic degradation.
23. Describe the steps of Alcohol production by microbes.

(2 x 6 = 12 weightage)