

C 63124

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Name.....

Reg. No.....

SECOND SEMESTER M.Sc. DEGREE EXAMINATION, JUNE 2014

(CUCSS)

General Biotechnology

GB2 C3—ENVIRONMENTAL BIOTECHNOLOGY

Time : Three Hours

Maximum : 36 Weightage

Section A

*Very short answer.
Answer **all** questions.
Each with a weightage 1.*

1. Slit sampler.
2. Eutrophication.
3. Phyto remediation.
4. Bio-magnification.
5. Zooglea ramigera.
6. Aeration ponds.
7. Biopols.
8. Global warming.
9. Oxidation ditches.
10. RBC.

(10 x 1 = 10 weightage)

Section B

*Short answer type questions.
Answer any **seven** questions.
Each with weightage 2.*

11. Discuss the role of safety cabinets in maintaining air sanitation.
12. What are the various strategies for the bio-remediation of soil ?
13. Describe the methods for enumeration of bacteria in air.
14. Discuss the benefits and limitations of Biofertilizers.
15. Explain the treatment systems for tannery effluents.
16. Discuss the water pollution parameters.

Turn over

17. Explain symbiotic nitrogen fixation.
18. Discuss the role of degradative plasmids in degradation of hydrocarbon.
19. Give a brief note on Bioplastics.
20. List out different types of Biopesticides.

(7 x 2 = 14 w stage)

Section C

Essay Type Questions.

*Answer any **two**, each with a weightage 6.*

21. Explain chemical and biological waste water treatment methods.
22. Describe the process of biodegradation of xenobiotics.
23. What are Biofuels ? Explain the production of Bioethanol and Biodiesel.

(2 x 6 = 12 Weightage)