

**SECOND SEMESTER M.Sc. DEGREE EXAMINATION, JULY 2012**

(CUCSS)

General Biotechnology

GB 2C3—ENVIRONMENTAL BIOTECHNOLOGY

Time : Three Hours

Maximum : 36 Weightage

**Section A**

*Answer all the ten questions with one or two sentences.  
Each questions carries 1 weightage.*

1. RBC.
2. Co-metabolism.
3. BIOPOL-A.
4. Heterocyst.
5. Biofouling.
6. Oxidation lagoons.
7. Zooglea.
8. Bio-aerosols.
9. Microbial infallibility.
10. Composting.

(10 x 1 = 10 weightage)

**Section B (Short Answer)**

*Answer any seven out of ten questions.  
Each questions carries 2 weightage.*

11. Impact of Ozone depletion on the environment.
12. What are the factors influence global warming ?
13. Microbial degradation of xenobiotics.
14. Bio ethanol production.
15. Brief note on green house effect.
16. Discuss sources of air pollution and its control measures.
17. Describe biological treatment of sewage.

Turn over

18. Types of biopesticides and their role in integrated pest management.
19. Discuss various anaerobic digesters.
20. Describe Methanogenesis and its significance in biogas production.

(7 x 2 = 14 weightage)

### Section C (Essay Questions)

*Answer any two out of three.  
Each question carries 6 weightage.*

21. Discuss benefits and limitations of biofertilizers. Explain molecular mechanism of symbiotic nitrogen fixation.
22. Describe sources and types of social wastes and explain the various strategies for solid was management.
23. Discuss different types of environmental pollution. Explain control measures of these pollutio

(2 x 6 = 12 weigh-