

C 6962

Name.....

Reg. No.....

SECOND SEMESTER M.Sc. DEGREE EXAMINATION, AUGUST 2005

General Biotechnology

GBT 203—ENVIRONMENTAL BIOTECHNOLOGY

Maximum : 80 Marks

Time : Three Hours

Section A

Answer any two questions.

1. What is water pollution ? Describe wastewater treatment by physical, chemical and biological treatment processes.
2. Explain the role of microorganisms in the degradation of xenobiotics with suitable examples.
3. Describe the role of biopesticides in integrated pest management. (2 x 10 = 20 marks)

Section B

Answer any ten questions.

4. How do you solve the solid waste problem ?
5. Describe the impact of acid rain on the environment.
6. Give an account of anaerobic digestion.
7. Describe environmental management through biotechnological approaches. ?
8. How do you reduce air pollution caused by motor vehicles and industries ?
9. Explain the role of microorganisms in mineral recovery.
10. Describe the methane gas production by microorganisms.
11. What is the impact of ozone depletion on the environment ?
12. Describe the wormiculture.
13. Explain the effects of sulfur dioxide on crop plants.
14. What is the impact of air pollution on soil quality ?
15. How do you reclaim wasteland ? (10 x 5 = 50 marks)

Section C

Answer all questions.

16. BOD.
17. Greenhouse effect.
18. Biomagnification.
19. PCB.
20. TOL plasmid. (5 x 2 = 10 marks)