



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

B.Sc. DEGREE EXAMINATION – ADVANCED ZOOLOGY AND BIOTECHNOLOGY

SIXTH SEMESTER – APRIL 2017

AZ 6603- ENVIRONMENTAL BIOTECHNOLOGY

Date: 20-04-2017
Time: 09:00-12:00

Dept. No.

Max. : 100 Marks

PART – A

Answer ALL the questions.

10x2 = 20 Marks

1. Biofuels
2. Biological indicators.
3. Lyophilization.
4. Fermentation.
5. Coagulation.
6. Immobilization
7. Xenobiotics.
8. Bioaugmentation.
9. Plasmids.
10. Synergism.

PART-B

Answer any FOUR questions.

4x10 = 40 Marks

11. Give an account on activated sludge system.
12. Explain in detail on tertiary treatment.
13. Describe methanogenesis.
14. Explain the design of bioreactor.
15. Write short notes on: *Thiobacillus ferrooxidans* and *Thiobacillus thiooxidans*.
16. Explain the process of sewage treatment.

PART-C

Answer any TWO questions. 2x20 = 40 Marks

17. Discuss in detail ethanol production.
18. Explain in detail on biosensors and their types.
19. Explain anaerobic digestion and discuss the digestion process.
20. Discuss bioleaching and its application.
