

LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034



B.Sc. DEGREE EXAMINATION – ADVANCED ZOOLOGY AND BIOTECHNOLOGY

SIXTH SEMESTER – NOVEMBER 2016

AZ 6603/AZ 6600 – ENVIRONMENTAL BIOTECHNOLOGY

Date: 14-11-2016

Dept. No.

Max. : 100 Marks

Time: 09:00-12:00

PART – A

(10x2=20 marks)

Answer all the questions (Define/Comment)

1. Biofuels
2. Biosensors
3. Fermentation
4. Bioreceptors
5. Eutrophication
6. Fixed Film Reactor
7. Xenobiotics
8. Bioaugmentation
9. Bioremediation
10. Biogas

PART – B

(4x10= 40 marks)

Answer any four questions

11. Give an account on anaerobic sludge digester.
12. What do you know on production of hydrocarbon?
13. Explain in detail about tertiary treatment.
14. Describe methanogenesis.
15. Explain biosorption.
16. Highlight on cyanide detoxification.

PART –C

(2x20= 40 marks)

Answer any two questions

17. Discuss in detail – ethanol production.
18. Give an account on bioleaching and its applications.
19. Biotechnological methods are applied in hazardous waste management - substantiate.
20. Design a bioreactor for production of a product of human welfare.
