

**LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034**



**B.Sc. DEGREE EXAMINATION – ADVANCED ZOOLOGY AND BIOTECHNOLOGY**

**SIXTH SEMESTER – APRIL 2016**

**AZ 6603/AZ 6600 – ENVIRONMENTAL BIOTECHNOLOGY**

Date: 15-04-2016

Dept. No.

Max. : 100 Marks

Time: 09:00-12:00

**PART – A**

Answer **ALL** questions:

(10 x 2 = 20 marks)

1. Define nitrification.
2. What are biosensors?
3. What are bioreactors?
4. Define eutrophication.
5. Define methanogenesis.
6. What is lyophilization?
7. What is biosorption?
8. Define xenobiotics.
9. Comment on stabilization pond.
10. What is phytoremediation?

**PART - B**

Answer any **FOUR** questions:

(4 x 10 = 40 marks)

11. Explain the process of ethanol production.
12. Describe the process of sewage treatment.
13. Give an account on sterilization procedure in bioreactor.
14. How do you treat drinking water?
15. Explain donor versus electron acceptors.
16. How biomass is produced from waste?

Answer any **TWO** questions:

(2 x 20 = 40 marks)

17. Give a detailed account on reactor types.
18. Explain the process of denitrification.
19. Give an account on biodegradation.
20. Discuss bioleaching with its advantages and disadvantage.

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