



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

B.Sc. DEGREE EXAMINATION – PLANT BIOLOGY AND PLANT BIOTECHNOLOGY

SIXTH SEMESTER – APRIL 2015

PB 6614 - ECOLOGY & ENVIRONMENTAL BIOTECHNOLOGY

Date : 20/04/2015
Time : 09:00-12:00

Dept. No.

Max. : 100 Marks

PART-A

Answer the following, each within 50 words only:

(10x2=20marks)

1. What is meant by tropic level?
2. What are the various components of ecosystem?.
3. Define pollution?
4. How can water pollution be measured?
5. Define bioaugmentation.
6. What is silaging?
7. Define biofilm.
8. What are Xenobiotics?
9. Define biodegradable pollutants.
10. Define biofiltration.

PART-B

Answer the following, each within 500 words only:

(5x7=35marks)

Draw diagrams wherever necessary:

11. a) What are ecological Pyramids? Explain the different types of Ecological Pyramids.
Or
b) Distinguish between food chain and food web.
12. a) Explain the process of Composting.
Or
b) Give a brief account on biogas production.
13. a) Give an account on Trickle filter.
Or
b) Write short notes on activated sludge process of sewage water treatment.
14. a) Write notes on Phytoremediation.
Or
b) Describe the methods to remove oil spills from water.
15. a) Write short notes on soil pollution.
Or
b) Write short notes on bioremediation of radionuclides.

PART-C

Answer any **THREE** of the following, each within 1200 words only:
Draw diagrams wherever necessary:

(3x15=45marks)

16. Write an essay on air pollution.
17. Describe the methods of conservation of biodiversity.
18. Write detailed notes on Bioremediation.
19. Explain the various methods for the removal of heavy metals.
20. Give a detailed account on degradation pathway of phenol and polychlorinated biphenyl's.

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