

LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034



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

SIXTH SEMESTER – APRIL 2016

PB 6614 – ECOLOGY & ENVIRONMENTAL BIOTECHNOLOGY

Date: 21-04-2016

Dept. No.

Max. : 100 Marks

Time: 09:00-12:00

PART-A

Answer the following, each within 50 words only:

(10x2=20marks)

1. Define food chain.
2. What is ecotype?
3. Define pollutant.
4. Comment on greenhouse effect.
5. What is phycoremediation?
6. What is biostimulation?
7. What are effluents?
8. What is disinfection?
9. What are xenobiotics?
10. Define biofiltration?

PART-B

Answer the following, each within 500 words only:

(5x7=35marks)

Draw diagrams wherever necessary:

11. a. Give a brief account on ecological pyramid.
or
b. Write short notes on abiotic factors of the ecosystem.
12. a. Write short note on biogas production.
or
b. Give an account on Silage.
13. a. Give an account on Trickling filter.
or
b. Write short notes on biosorption.
14. a. Briefly write about the various mechanisms involved in bioremediation.
or
b. What are the factors that influencing bioremediation.
15. a. Give an account of Pesticide Pollution.
or
b. Write short notes on bioremediation of radionucleotide.

PART-C

Answer any **THREE** of the following, each within 1200 words only:

(3x15=45marks)

Draw diagrams wherever necessary:

16. Write an essay on conservation of biodiversity.
17. Give an account on water pollution.
18. Define phytoremediation. Describe the various phytoremediation techniques.
19. Give brief account on sewage water treatment.
20. Give a detailed account on degradation pathway of phenol and Polychlorinated biphenyls.

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