LOYOLA COLLEGE (AUTONOMOUS), CHENNAI - 600 034

Sc. DEGREE EXAMINATION -PLANT BIOLOGY AND PLANT BIOTECHNOLOGY

SIXTH SEMESTER - APRIL 2018

PB 6610- ENVIRONMENTAL BIOTECHNOLOGY

Date: 10-05-2018	Dept. No.	Max.: 100 Marks
Time: 01:00-04:00	L	

PART - A

Answer the following, each within 50 words.

 $(10 \times 02 = 20 \text{ marks})$

- 1. What is composting?
- 2. What is recycling?
- 3. What is biosorption?
- 4. Define effluent
- 5. What are xenobiotics?
- 6. Define biotransformation.
- 7. What are the advantages of bioremediation?
- 8. What are the environmental factors affecting bioremediation?
- 9. Define biofilm.
- 10. What is biomineralization?

PART - B

Answer the following, each within 500 words; draw diagrams and flow charts wherever necessary (5 \times 7 = 35 marks)

11a. Write the causes of air and water pollution.

(OR)

- b. Explain the method of hydrogen production using different waste materials.
- 12a. Give an account on structure and functioning of Tickling filters.

(OR)

- b. How will you remove oil spills by using microbes?
- 13a. Explain the biological treatment for soil pollutants.

(OR)

b. Write the various mechanisms involved in bioremediation of xenobiotics.

