

**D 92311-A**

Name.....

Reg. No.....

**THIRD SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2015**

(CUCBCSS—UG)

Complementary Course

BIT 3C 11—ENVIRONMENTAL BIOTECHNOLOGY

Time : Three Hours

Maximum : 40 Marks

**Section A**

*Answer any **one** question out of two questions in about 1,500 words.*

*Each question carries 10 marks.*

1. What is bioremediation ? What are its advantages ? Discuss the different types of bioremediation.
2. What are xenobiotics ? How are they degraded by micro-organisms ?

(1 × 10 = 10 marks)

**Section B**

*Answer any **three** out of five questions in about 1,000 words.*

*Each question carries 5 marks.*

3. Explain the principle and applications of composting.
4. Discuss the methods used for the management of medical solid waste.
5. What is bioventing ? Explain the process.
6. Explain the biodegradation of petrochemical effluents.
7. Discuss the illeffects of air pollution on health.

(3 × 5 = 15 marks)

**Section C**

*Answer all **five** questions in about 500 words.*

*Each question carries 3 marks.*

8. Distinguish between domestic and industrial wastes.
9. What is biosparging ?
10. Outline the Biodegradation mechanism of phenol.
11. What is green house effect ?
12. Explain methanogenesis.

(5 × 3 = 15 marks)