

D 12452

Name.....

Reg. No.....

THIRD SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2016

(CUCBCSS-UG)

Complementary Course

BTY 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. Describe the various biosystems used for the removal of air pollutants.
2. Discuss how microbes degrade xenobiotics.

(1 × 10 = 10 marks)

Section B

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

Each question carries 5 marks.

3. Explain Vermitechnology and its applications.
4. What is phytoremediation? What are its advantages?
5. Explain the advantages of Bioremediation.
6. Describe the degradation of Phenol by aerobes.
7. Discuss the ill effects 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 *in situ* and *ex situ* bioremediation.
9. What is bioaugmentation?
10. Explain Bioventing.
11. What are the potential environmental problems associated with landfill?
12. Outline the causes and consequences of acid rain.

(5 × 3 = 15 marks)