

C 31191

Name.....

Reg. No.....

THIRD SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2017

(CUCBCSS—UG)

Complementary Course

BTY 3C 11—ENVIRONMENTAL BIOTECHNOLOGY

Time : Three Hours

Maximum : 40 Marks

Section A

Answer any one question out of two in about 1500 words.

Each question carries 10 marks.

1. Discuss the various aerobic methods for the treatment of industrial effluents.
2. What is biodegradation ? Explain the various factors affecting the biodegradation of xenobiotic compounds.

(1 × 10 = 10 marks)

Section B

Answer any three questions out of five in about 1000 words.

Each question carries 5 marks.

3. Write the principles and applications of composting.
4. What is phytoremediation ? List few plant species involved in phytoremediation.
5. Write a note on bioremediation and discuss its constraints and priorities.
6. Briefly explain the mechanism involved in degradation of petrochemical effluents.
7. State few methods to control gaseous emission.

(3 × 5 = 15 marks)

Section C

Answer all five questions in about 500 words.

Each question carries 3 marks.

8. What is aerobic composting ?
9. Give the composition of biogas.
10. What is trickling filter.
11. Briefly explain how microbes are useful in recovery of oil from oil wells.
12. What are ambient air quality standards ?

(5 × 3 = 15 marks)