

C 4015

Name.....

Reg. No.....

FOURTH SEMESTER B.Sc. DEGREE EXAMINATION, MAY 2016

(CUCBCSS-UG)

Complementary Course

BTY 4C 15—ENVIRONMENTAL BIOTECHNOLOGY

Time : Three Hours

Maximum : 40 Marks

Section A

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

Each question carries 10 marks.

1. What are the feed-stocks and conversion routes in the production of **bio-energy** ?
2. What are the types of single cell proteins ? Describe the general procedure of production of micro-algal biomass.

(1 x 10 = 10 marks)

Section B

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

Each question carries 5 marks.

3. Describe land farming technique for soil **bio-remediation**.
4. What are **bio-pesticides** ? How are they classified based on origin ?
5. What is the process involved in **bio-leaching** of uranium ?
6. What are the properties and applications of **PHB** ?
7. What are the in situ **bio-remediation** techniques ?

(3 x 5 = 15 marks)

Section C

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

Each question carries 3 marks.

8. What are the environmental benefits of **bio-plastics** ?
9. What is **phytoextraction** ?
10. Explain the process of **methanogenesis**.
11. What are the nitrogen fixing **bio-fertilisers** used in agriculture ?
12. **What** is **bio-derived** polyethylene ?

(5 x 3 = 15 marks)