

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)