

**C 41483**

**(Pages 2)**

**Name.....**

**Reg. No.....**

**FOURTH SEMESTER U.G. DEGREE EXAMINATION, MARCH 2013**

**(CCSS)**

**Biotechnology**

**BT4 C02—ENVIRONMENTAL BIOTECHNOLOGY**

Time : Three Hours

**Maximum : 30 Weightage**

I. Objective type questions. Answer *all* questions :

A. True or False :

- 1 'Biopol' is the first fully biodegradable commercial **plastic**.
- 2 Bioventing is an *ex situ* **remediation** technology.
- 3 Endosulphan is a **xenobiotic** compound.
- 4 Exxon Valdez disaster was due to water pollution.
- 5 Sulfite waste liquor is from the paper pulping industry.
- 6 Fossil-fuel plastics are derived from petroleum.

B. Name the following :-

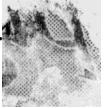
- 7 Enzyme widely used in treatment of wastes from food **processisng** industry.
- 8 A fungi used as **SCP**.
- 9 First human-made organic dye.
- 10 A method of enzyme immobilization.
- 11 Cellulose-based plastics.
- 12 An indicator of water pollution by sewage.

**(12 x ¼ = 3 weightage)**

II. Short answer type questions. Answer *all* questions :

- 13 **Biomagnification**.
- 14 **Biolac**.
- 15 **Dissovled** oxygen.
- 16 **IPM**.
- 17 Sulfite waste liquor.

**Turn over**



- 18 Uses of PHA.
- 19 **Biotrickling** filters.
- 20 **Bioventing**.
- 21 Water hyacinth.

(9 x 1 = 9 **weightage**)

III. Short Essay or paragraph questions. Answer any *five* questions :

- 22 Advantages of **bioplastics**.
- 23 Immobilisation techniques.
- 24 Environmental effects of oil spill.
- 25 Lead as pollutant.
- 26 Sources of nature dye.
- 27 Treatment system for **distillery** industry wastes.
- 28 **Biotreatment** of food industry waste.

(5 x 2 = 10 **weightage**)

IV. Essay questions. Answer any *two* :

- 29 Environmental impact of pesticide pollution.
- 30 Describe in short treatment and disposal strategies of food and allied industrial waste water.
- 31 Biotechnological application for pulp industry.

(2 x 4 = 8 **weightage**)