

**C 62095**

**(Pages 2)**

**Name.....**

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

**FOURTH SEMESTER B.Sc. DEGREE EXAMINATION, MAY 2014**

**(UG-CCSS)**

**Biotechnology**

**Complementary Course**

**BT 4C 02—ENVIRONMENTAL BIOTECHNOLOGY**

Time : Three Hours

**Maximum : 30 Weightage**

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

A True or False :

- 1 Whey is a byproduct of textile industry.
- 2 Amylase is an enzyme widely used **in food industry.**
- 3 Chlorella is an excellent choice for use as SCP.
- 4 A bioscrubber is physically similar to a **chemical scrubber.**
- 5 The Odyssey disaster was due to water **pollution.**
- 6 Polylactic acid (PLA) **is a transparent plastic produced by bacteria.**

B. Name the following :-

- 7 An in situ bioremediation technology.
- 8 Enzyme widely used in leather industry.
- 9 Lactic acid based plastic.
- 10 A bacteria used for the industrial production of **PBA.**
- 11 Biotrickling filters used to control odours.
- 12 Minamata disease is caused by.

**(12 x = 3 weightage)**

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

- 13 Biofilters.
- 14 Lagoons.
- 15 Natural dyes.
- 16 Biopol.
- 17 Bio degradation of pesticides.
- 18 Biogas.

**Turn over**

19 Applications of bioscrubbers.

20 Microbes employed for the production of SCP.

21 Disadvantages of bioplastic.

(9 x 1 = 9 weight

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

22 Distillery waste water treatment techniques.

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23 Water pollution parameters.

24 Immobilisation techniques.

25 Detail the characteristics of Dairy waste water.

26 Lead pollution.

27 Treatment technologies of tannery effluents.

28 Disposal strategy of wastes generated from pulp and paper industry.

(5 x 2 = 10 weightage)

IV. Essay questions. Answer any *two* :

29 Detail waste water treatment processes.

30 How can biotechnology be used in controlling pollution through the use of cleaner technology ?

31 Sources and effects of pesticide pollution.

(2 x 4 = 8 Weightage)