D 72434	(Pages : 2)	Name
		Reg. No
THIRD SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2014		
(U.G.—CCSS)		
Complementary Course—Biotechnology		
BT 3C 02—ENVIRONMENTAL BIOTECHNOLOGY		
Time: Three Hours		Maximum: 30 Weightage
I. Objective type question.	Answer <i>all</i> questions.	
(A) Name the following	; :-	
1 An <i>in situ</i> remediation technology that uses microorganisms to biodegrade organic constituents adsorbed on soils.		
2 Lead toxicity dis	sease.	
3 An organophosi	phorus pesticide.	
4 Example for a gr	reen house gas.	
(B) State whether true or false:		
5 Minamata disease was caused due to Cadmium contamination.		
6 The Torry canyon disaster was not a cause of oil pollution		
7 Bioventing is an <i>ex situ</i> remediation technology that uses microorganisms to biodegrade organic constituents adsorbed on soils.		
8 Lichen are biomonitors used to check air quality.		
9 High soil moisture soils reduce bioventing performance.		
10 Sulfurous acid is	s formed in the atmosphere due to a	automobile emission.
11 Spirullina is an	excellent choice for use as SCP.	
12 PCB is an orga	nophosphorus pesticide.	
		$(12 \times \frac{1}{4} = 3 \text{ weightage})$
II. Short answer type questions. Answer <i>all</i> questions :		
13 Radio active waste.		
14 CFC's		

Turn over

 $15\ Traffic\ pollution\ control\ strategies.$

 $16 \ Biodegradation \ of \ petrochemical \ effluents.$

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- 17 Use of fungi for biosorption technologies.
- 18 Advantages of bioremediation.
- 19 Hazardous waste.
- 20 In situ bio-remediation technologies.
- 21 Composting.

 $(9 \times 1 = 9 \text{ weightage})$

- III. Short essay or paragraph questions. Answer any five questions.
 - 22 Causes and effects of acid rain.
 - 23 Mechanism of pesticide degradation.
 - 24 Global warming.
 - 25 Eutrophication.
 - 26 Biological indicators of pollution.
 - 27 IMViC test.
 - 28 Solid waste management.

 $(5 \times 2 = 10 \text{ weightage})$

- IV. Essay questions. Answer any two questions.
 - 29 Describe causes and effects of climate change.
 - 30 Illustrate current status and novel trends in environmental biotechnology.
 - 31 Detail causes effects and control of air pollution

 $(2 \times 4 = 8 \text{ weightage})$