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THIRD SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2013 (UG-CCSS)

Biotechnology - Complementary Course BT 3C 02-ENVIRONMENTAL BIOTECHNOLOGY

Time : Three Hours
Maximum : 30 Weikhtage
I. Objective type question. Answer all questions :

A Name the following :-
1 An aquatic plant used in waste water treatment.
2 An indicator of water pollution by sewage.
3 Lead toxicity disease.
4 An organophosphorus pesticide.
B State whether true or false :
5 Malathion is an Xenobiotic compound.
6 Minamata disease was caused due to Cadmium contamination.
7 The Torry canyon disaster was not a cause of oil pollution.
8 Bioventing is an in situ remediation technology that uses micro-organisms to biodegrade organic constituents on soils.

9 Oxygen is a green house gas.
10 Ozone layer is present in stratosphere.
11 Spirullina is an SCP.
12 Biocoenoses developing within the trickling bed reactor is an advantage.
(12 $\mathrm{x}=3$ weightage)
II. Short answer questions. Answer all questions :

13 Biosorption.
14 Acration ponds.
15 Pesticide disposal using fungi.
16 Bioreactors for biosorption.

## 17 Bioubgumentation.

18 Green house effect.
19 BTeX.
20 Acid rain.

## 21 Eutrophication.

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

22 Air pollution and its controll.
23 Biodegradation of petrochemical effuents.

## 24 Bipscrubbers.

25 Biological indicators of pollution.
26 Anaerobic reactors used in effluent treatment.
27 Removal of nitrogen from waste water.
28 Motor vehicle pollution control strategies.
IV. Essay questions. Answer any two :

29 Illustrate current status and novel trends in environmental biotechnology.
30 Detail biorempdiation types and advantages.
31 Causes, effects and control of water pollution with special emphasis to nitrogen and phosphoro
pollution.

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\text { ( } 5 \times 2=10 \text { weightage: }
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