26066 **(Pages : 2)** **Name**

Reg. No.....

FOURTH SEMESTER B.Sc. DEGREE EXAMINATION, MAY 2012

(CCSS)

Biotechnology – Complementary Course

BT 4C 02 – ENVIRONMENTAL BIOTECHNOLOGY

Maximum : 30 Weightage

ıe : Three Hours

I. Objective Type Questions. Answer *all* questions :

Match the following :

1. Torry canyon	(i) Adsorption.
2. Minamata disease	(ii) Xenobiotic.
3. Morinaga	(iii) sulfite waste liquor.
4. Itai-Itai	(iv) *Streptococcus faecalis.*
5. Plumbism	(v) *Phanaerochyte chrysosporium*
6. White rot fungus	(vi) *Alcaligenes eutrophus.*
7. PHB	(vii) Cadmium intoxication.
8. SCP	(viii) Lead toxicity.
9. Indicator organism	(ix) *Senedesmus.*
10. Paper industry	(x) Arsenic poisoning.
11. DDT	(xi) Mercury poisoning.
12. Biofilm	(xii) oil tanker accident.

(12 x ¼ = 3 weightage)

II. Short Answer Type Questions. Answer any *nine* questions :

13. Lignocellulosic wastes.
14. Pesticide degrading bacteria.
15. Bioscrubbers.
16. Phenol degraders.
17. Biolac.
18. Application of distillery wastes.
19. Air pollution.
20. Heavy metal pollution.
21. Oil pollution.

(9 x 1= 9 weightage)

Turn over

C

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

22. What are the different sources of pollution?
23. Explain how pesticide waste can be disposed.
24. 'Dark side of bioplastics' – Explain.
25. Explain the importance of SCP.
26. What arc the methods of whole cell immobilization?
27. What are the biotreatment methods for dye wastes?
28. Explain the environmental impact of tannery effluents.

(5 x 2 = 10 weigt

IV. Essay questions. Answer any *two* out of three :

29. Bioplastics.
30. Waste treatment using aquatic plants.
31. Biomass from Waste.

(2 x 4 = 8 weigh