

SECOND SEMESTER M.Sc. DEGREE EXAMINATION, JUNE 2015

(CUCSS)

General Biotechnology

GB 2C 3—ENVIRONMENTAL BIOTECHNOLOGY

Time : Three Hours

Maximum : 36 Weightage

Section A (Very Short Answer)*Answer **all** the ten questions with one **or** two sentences.**Each question carries a **weightage** of 1.*

1. **Biopol-A.**
2. **ToI plasmid.**
3. **Phyto remediation.**
4. **Algal biofertilizers.**
5. **Vermiculture.**
6. **Sources of Air Pollution.**
7. **Recalcitrant.**
8. **Activated sludge.**
9. **Biosorption.**
10. **Biomagnification.**

(10 x 1 = 10 weightage)

Section B (Short Answer)*Answer any **seven** questions.**Each question carries a **weightage** of 2.*

11. Discuss about the production of **bioethanol** and **biodiesel**.
12. Explain the factors influence soil pollution.
13. Discuss about different strategies for solid waste management.
14. Explain the benefits and limitations of **biofertilizers**.
15. Explain the **biodegradation** of **xenobiotic** compounds.
16. Different types of **biopesticides** and their role in integrated pest management.
17. Explain the anaerobic process in **distillery** and tannery industries.

Turn over

18. Discuss about sources and control measures of water pollution.
19. Brief account on **bioplastics** and their role in environmental management.
20. Explain the role of **bioremediation** in solid waste management.

(7 x 2 = 14 w

Section C (Essay Questions)

*Answer any **two** questions.*

*Each question carries a **weightage** of 6.*

21. Describe various factors **responsible** for Global Environmental problems.
22. Describe the fate of Biodegradation of polychlorinated **biophenyls**.
23. Describe chemical and biological methods used in waste water management.

(2 x 6 = 12 w