

C 83030

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Name.....

Reg. No.....

**SECOND SEMESTER B.Sc. DEGREE EXAMINATION, MAY 2015**

(CUCBCSS-UG)

Complementary Course

Biotechnology

**BT 2C 07—ENVIRONMENTAL BIOTECHNOLOGY**

Time : Three Hours

Maximum : 80 Marks.

**Section A**

*Answer any two out of four questions in about 1500 words.  
10 marks for each question.*

1. Describe the tertiary treatment of wastewater.
2. Explain medical waste treatment methods.
3. Which are the important characteristics of waste water.
4. Describe the steps for determining the quality of potable water.

(2 × 10 = 20 marks)

**Section B**

*Answer any seven out of fourteen questions in about 750 words.  
5 marks for each question.*

5. What is activated sludge process ?
6. Write down the procedure of distillation of water.
7. What is a fedbatch reactor ?
8. What is confirmed test ?
9. What is a packed column reactor ?
10. What is phytoremediation ?
11. State the adverse effects of nitrate in drinking water.
12. What is eutrophication ?
13. Write a note on water contaminating microorganisms.
14. Which are the measures to control water pollution ?
15. What is fluidized bed reactor ?
16. Why E-coli is used as an indicator ?
17. What is chemical characters of waste water ?
18. What is UASB ?

(7 × 5 = 35 marks)

**Turn over**



**Section C**

*Answer all questions in about 300 words.  
3 marks for each question.*

19. What is dissolved oxygen content ?
20. What is BOD ? State the significance.
21. What are methanogens ?
22. What is the use of duckweed ?
23. Advantages of biological treatment.

**(5 × 3 = 15 marks)**

**Section D**

*Answer all questions in about 200 words.  
2 marks for each question.*

24. Write down a method for the removal of salinity from drinking water.
25. What is imhoff tank ?
26. Mention the principle of UVlight treatment of water.
27. State the uses of sludge.
28. What is the reason for temporary hardness of water ?

**(5 × 2 = 10 marks)**