

**C 83030**

**(Pages : 2)**

**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 x 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 x 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 x 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 x 2 = 10 marks)**