

C 43556

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Name

Reg. No.....

**FIRST SEMESTER B.Sc. DEGREE EXAMINATION
JULY 2013**

(CCSS)

Biotechnology

BT 1C 03 – ENVIRONMENTAL BIOTECHNOLOGY

Time : Three Hours

Maximum : 30 Weightage

I. Objective type questions. Answer all *twelve* questions :

State whether True or False :

1. Caliciviruses are enteroviruses.
2. Rhizopus sp. is a symbiotic bacteria.
3. Desulfovibrio is not a sulfate reducing bacteria.
4. P-dimethyaminobenzaldehyde is used in the red ring test.
5. Fecal streptococci are indicators of pollution.
6. Vigorous aeration of sewage results in flocculation.
7. The zooglear film is formed due to adsorption process.
8. The more oxidizable the organic matter the higher the BOD.
9. Coliforms do not give gas formation in BGLB.
10. *E.coli* are gram negative bacteria.
11. *Rhodospirillum* is a purple non-sulfur bacteria.
12. *Thiobacillus thiooxidans* are heterotrophic bacteria.

12 x = 3 weightage)

II. Short answer type questions. Answer all *nine* questions :

13. Biomagnifications.
14. Bioaccumulation.
15. Composting.
16. Citrate test.
17. Standard plate count.
18. Denitrification.

Turn over

19. Sulfur oxidizers.

20. Ecosystems.

21. EPA.

(9 x 1 = 9 weightage)

III. Short essay or Paragraph questions. Answer any *five* from seven :

22. Symbiotic nitrogen fixation.

23. Chlorination.

24. Coliform group.

25. Membrane filter technique.

26. Advanced treatment.

27. Activated sludge.

28. Water quality management.

(11)

(5 x 2 = 10 weightage)

IV. Essay questions. Answer any *two* from three :

29. Carbon cycle.

30. Bacteriological examination of water.

31. Pollution management.

(2 x 4 = 8 weightage)