

**D 53022**

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Name.....

Reg. No.....

**FIRST SEMESTER M.Sc. DEGREE EXAMINATION, JANUARY 2014**

(CUCSS)

Microbiology

MB 1C 03—ENVIRONMENTAL AND SANITATION MICROBIOLOGY

Time : Three Hours

Maximum : 36 Weightage

**Section A**

*Answer **all** questions in 2 or 3 sentences.  
Each question carries 1 weightage.*

1. Phylloplane microflora.
2. Eikman's test.
3. Mutualism.
4. Infection thread.
5. MacConkey Agar.
6. Green sulphur bacteria.
7. Azotobacter.
8. Nif genes.
9. Bioterrorism.
10. Disinfectant.
11. *Salmonella typhi*.
12. COD.
13. Zoogeleal film.
14. Biofilm.

(14 x 1 = 14 weightage)

**Section B**

*Answer any seven questions.  
Each question carries 2 weightage.*

15. Phosphorus cycle.
16. Tertiary treatment.
17. Humus.

Turn over

18. Air-borne diseases.
19. MPN method.
20. Air microflora.
21. Rhizosphere microflora.
22. Mycorrhizae.
23. Room sanitation in hospitals.
24. Oil pollution.

(7 x 2 = 14 weightage)

### Section C

*Discuss in detail about any two questions.  
Each question carries 4 weightage.*

25. Characteristics of Tannery waste and its treatment.
26. Process of root nodule formation and establishment of *Rhizobium* in the plant root.
27. Degradation of organochlorine pesticides.

(2 x 4 = 8 weightage)

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