

D 13241

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Name

Reg. No.....

FIRST SEMESTER M.Sc. DEGREE EXAMINATION, DECEMBER 2016

(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 carries a weightage of 1.

1. R : S Ratio.
2. Synergism.
3. VA Mycorrhiza.
4. Phylloplane.
5. Phosphate solubilization.
6. Anderson air sampler.
7. Coliforms.
8. Rotating Biological Contactor (RBC).
9. Antibiosis.
10. Asymbiotic nitrogen fixation.
11. Disinfectant sprays.
12. Negative air ionization.
13. Rhizobium.
14. **EMB** agar.

(14 x 1 = 14 weightage)

Section B

*Write notes on any **seven**.*

Each carries a weightage of 2.

15. Symbiotic nitrogen fixation.
16. Sulfur cycle.
17. Carbon cycle.

Turn over

18. Reuter centrifugal air sampler.
19. Anaerobic methods of sewage treatment.
20. Treatment of petroleum wastes.
21. Early warning of plant diseases by air monitoring.
22. Multiple tube technique.
23. Rhizosphere microflora.
24. Solid waste disposal by land filling.

(7 x 2 = 14 weightage)

Section C

*Write in detail about **two**.
Each carries a weightage of 4.*

25. Describe various steps involved in water purification.
26. Discuss the various aerobic methods of sewage treatment.
27. Discuss the role of microbes in the degradation of xenobiotics and recalcitrants.
28. Explain phosphorous cycle.

(2 x 4 = 8 weightage)