

D 72946

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Name.....

Reg. No.....

FIRST SEMESTER M.Sc. DEGREE EXAMINATION, DECEMBER 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.
Each question carries 1 weightage.*

1. *Escherichia coli*.
2. Methanogenes.
3. Ammensalism.
4. Bacteriod.
5. Nitrogenase.
6. Winogradsky.
7. EMB agar.
8. *Pseudomonas putida*.
9. Biofilter.
10. Transient microflora.
11. Cellulase.
12. Pour plate method.
13. Eutrophication.
14. Biogas.

(14 x 1 = 14 weightage)

Section B

*Write notes on any **seven** of the following.
Each question carries 2 weightage.*

15. Co-metabolism.
16. Aeromicrobiology.
17. Sulphur cycle.

Turn over

18. Mineralisation.
19. Membrane filter technique.
20. Biological weapons.
21. Symbiotic nitrogen fixation.
22. Microbial diversity and its potential use.
23. Air sanitation in Metro tunnels.
24. Winogradsky column.

(7 x 2 = 14 weightage)

Section C

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

25. Role of microbes in biogeochemical cycles.
26. Sampling techniques to estimate air microflora and factors affecting type and distribution of air microflora.
27. Solid waste management strategies.

(2 x 4 = 8 weightage)