

D 13214

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Name

Reg. No.

FIRST SEMESTER M.Sc. DEGREE EXAMINATION, DECEMBER 2016

(CUCSS)

General Biotechnology

GB 1C 3 – MICROBIOLOGY

Time : Three Hours

Maximum : 36 Weightage

Section A (Very Short Answers)

*Answer **all** questions.*

Each question carries weightage 1.

1. Pasteurization.
2. Chemolithotroph.
3. Selective differential medium.
4. Trickling filter.
5. MPN.
6. MRSA.
7. Haemagglutination.
8. Mycoplasma.
9. Group translocation.
10. Endophytes.

(10 x 1 = 10 weightage)

Section B (Paragraph or Short Answer Type Questions)

*Answer any **seven** questions.*

Each question carries weightage 2.

11. Industrial application of Penicillium.
12. Structure of Bacteriophage.
13. Pure culture methods.
14. Microbial ATP synthesis.
15. Bacterial photosynthesis.
16. Viral cultivation methods.
17. Brief account on Congenital infections.

Turn over

18. Mechanisms of Microbial drug resistance.
19. Nutritional classification of bacteria.
20. Explain Methanogenesis.

(7 x 2 = 14 weightage)

Section C (Essay Type Questions)

*Answer any **two** questions.*

Each question carries weightage 6.

21. Explain Phosphorus, Nitrogen and Carbon cycles and its significance.
22. Describe the Baltimore classification of Bacteriophages.
23. What is sterilization? Explain different types of sterilization methods.

(2 x 6 = 12 weightage)