

D 2018

Name.....

Reg. No.....

**FIRST SEMESTER M.Sc. DEGREE EXAMINATION
DECEMBER 2009**

Microbiology

MBI 3T – ENVIRONMENTAL AND SANITATION MICROBIOLOGY

(2005 Admissions)

Time : Three Hours

Maximum : 80 Marks

Section A

*Write about I answer **all** the questions in two or three sentences each.
Each question carries 2 marks.*

- | | |
|---|---------------------------------|
| 1. Factors affecting soil microflora. | 2. Amensalism. |
| 3. Cellulose degradation. | 4. Sulphur oxidation. |
| 5. Hartignet. | 6. Leghaemoglobin. |
| 7. Phytoalexins. | 8. Impingement Samples. |
| 9. Air Sanitation methods. | 10. Air borne diseases. |
| 11. Regulations of biological weapons. | 12. Potable water. |
| 13. Indicator organisms. | 14. Presumptive coliform tests. |
| 15. Mode of action of chlorine in water purification. | 16. Biosensors. |
| 17. Septic tank. | 18. Marine microflora. |
| 19. Biofilm formation. | 20. Oxidation ponds. |

(20 x 2 = 40 marks)

Section B

*Write short notes on / discuss any **five** of the following.
Each question carries 8 marks.*

1. Biological Nitrogen fixation.
2. Mechanism of phosphate solubilization.
3. Factors affecting the type and extent of air microflora.
4. Enumeration methods of air microflora.
5. Management of Industrial effluents.
6. Biodegradation of petroleum wastes.
7. MPN technique for water analysis.

(5 x 8 = 40 marks)

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**FIRST SEMESTER M.Sc. DEGREE EXAMINATION
DECEMBER 2009**

Microbiology

MBI 2T – GENERAL MICROBIOLOGY

(2005 Admissions)

Time : Three Hours

Maximum : 80 Marks

Section A

*Answer **all** questions in two or three sentences each.
Each question carries 2 marks.*

- | | |
|---------------------------|--------------------------|
| 1. Total count. | 2. Frame shift mutation. |
| 3. DNA hybridization. | 4. Differential media. |
| 5. Continuous culture. | 6. Phenol. |
| 7. Mesosome. | 8. Thermophiles. |
| 9. Pasteurization. | 10. Cephalosporin. |
| 11. pour plate culture. | 12. Membrane filter. |
| 13. Ribosome. | 14. Gamma rays. |
| 15. Cytopathic effects. | 16. Jacketed Autoclave. |
| 17. Potato Dextrose agar. | 18. Phenol coefficient. |
| 19. Primary cell culture. | 20. Chemoautotrophs. |

(20 x 2 = 40 marks)

Section B

*Discuss any **five** of the following.
Each question carries 8 marks.*

1. Types of culture media.
2. Nutritional classification of microbes.
Reproduction in microorganisms.
Genetic material in Bacteria.
- 5 Estimation of Microbial growth.
6. Criteria used in Microbial classification.
7. Structure of endospore and sporulation mechanisms in Bacteria.

(5 x 8 = 40 marks)