

D 12671

Name.....

Reg. No.....

**FIRST SEMESTER M.Sc. (MICROBIOLOGY) DEGREE EXAMINATION
JANUARY 2006**

MB 1-3T—ENVIRONMENTAL AND SANITATION MICROBIOLOGY

(2005 Admissions)

Time : Three Hours

Maximum : 80 Marks

Section A

Write about/answer all the questions each in two or three sentences.

- | | |
|--------------------------------|-----------------------------|
| 1. Phyllosphere. | 2. Lichens. |
| 3. Siderophore. | 4. VAM. |
| 5. Nitrogenase complex. | 6. Biosuper. |
| 7. Air borne diseases. | 8. Air pollutants. |
| 9. Impinger sampler. | 10. Bioaugmentation. |
| 11. Disinfection. | 12. IMViC tests. |
| 13. Membrane filter. | 14. Indicator organism. |
| 15. Global warming. | 16. Cesspool. |
| 17. Oil spills. | 18. Activated sludge. |
| 19. Biofouling. | 20. Biosurfactant. |

(20 x 2 = 40 marks)

Section B

Write notes on/discuss any five of the following.

1. Plant-Microbe interaction.
2. Nitrogen cycle.
3. Factors affecting air **microflora.**
4. Methods of Air sampling.
5. Microbiological examination of drinking water.
6. Purification and disinfection of water.
7. Solid waste management.

(5 x 8 = 40 marks)

D 12670

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FIRST SEMESTER M.Sc. DEGREE EXAMINATION, JANUARY 2006

Microbiology

MBI-2T—GENERAL MICROBIOLOGY

(2005 Admissions)

Time : Three Hours

Maximum : 80 Marks

Section A

*Write about/answer **all** the questions each in two **or** three sentences.*

- | | |
|--------------------------------------|---------------------------------------|
| 1. Synchronous growth. | 2. Binary fission. |
| 3. Lithotrophs . | 4. Psychrophiles . |
| 5. Transport media. | 6. Gas pak. |
| 7. Robertson's cooked meat medium. | 8. Viable count. |
| 9. Lyophilisation . | 10. Chorio allantoic membrane. |
| 11-. Flash method of pasteurization. | 12. Sunlight as a disinfectant. |
| 13. Browne's tube. | 14. Vacuum autoclave. |
| 15. Cold sterilization. | 16. Phenol coefficient. |
| 17. Chlorination of water. | 18. Chick-Martin test. |
| 19. Tincture of iodine. | 20. HEPA filter. |

(20 x 2 = 40 marks)

Section B

*Write note on/discuss any **five** of the following.*

1. Bacterial cell wall.
2. **Mesosomes**.
3. Bacterial flagella.
4. Storage granules.
5. Types of mutations.
6. Ames test.
7. **Adansonian** classification.

(5 x 8 = 40 marks)