

D 12529

Name.....

Reg. No......

FIRST SEMESTER M.Sc. DEGREE EXAMINATION, JANUARY 2006

General Biotechnology
GBT 103—MICROBIOLOGY

Time : Three Hours

Maximum : 80 Marks

Section A

*Answer any two questions.
Each question carries 10 marks.*

1. Describe the biosynthesis of cell wall in Gram negative bacteria in detail.
2. How would you distinguish unicellular algae from **cyanobacteria** ?
3. What are the major modes of antibacterial action of antibiotics ?

(2 x 10 = 20 marks)

Section B

*Write briefly on any **ten** of the following.
Each question carries 5 marks.*

4. **Nosocomial** infection.
5. Cholera.
6. **Mycoplasma**.
7. **Lambaa phage**.
8. **Lyophilisation**.
9. **Euglena**.
10. Trickling filter.
11. Is Bergey's manual of Systematic Bacteriology is so important to bacteriologist ? Justify your answer.
12. Explain the methods of making culture **axenic**.
13. Discuss the characteristics of algae used for algal classification.
14. Explain the process of mineralization with an example.
15. Discuss the problem of using antibiotics as a good preservative.

(10 x 5 = 50 marks)

Section C

*Answer **all** questions.
Each question carries 2 marks.*

16. Pasteurization.
17. Spirochete.
18. **Voges-Proskauer** reaction.
19. Botulism.
20. Reverse **transcriptase**.

(5 x 2 = 10 marks)