

D 2722.....

Name.....

Reg. No.....

**FIRST SEMESTER M.Sc. (GENERAL BIOTECHNOLOGY) DEGREE
EXAMINATION, JANUARY 2005**

GBT : 103 – MICROBIOLOGY

Time : Three Hours

Maximum : 80 Marks

Section A

*Answer any two of the following.
10 marks for each answer.*

1. Discuss the different factors influencing microbial growth.
2. What is **rhizosphere** ? Discuss its importance in soil fertility and plant nutrition.
3. Give a brief account of major classes of antimicrobial agents and their mechanism of action.

(2 x 10 = 20 marks)

Section B

*Answer any ten.
5 marks for each answer.*

Write briefly on :-

4. **Bio** degradation.
5. **Microflora** of air.
6. **Kreb's** cycle.
7. **Candidiasis**.
8. **Procaryote**.
9. Tetanus.
10. Continuous culture.
11. Sulphur cycle.
12. Methods of bacterial **quantitation**.
13. Drug resistance mechanisms.
14. Water born diseases.
15. **IMViC** test.

(10 x 5 = 50 marks)

Section C.

*Answer all five questions.
2 marks for each answer.*

Write short notes on :-

16. **Archaeobacteria**.
17. **Aflatoxin**.
18. **Peptidoglycan**.
19. **E.coli**.
20. **Procaryotic** cell membrane.

(5 x 2 = 10 marks)