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Name

Reg. No.....

FIRST SEMESTER M.Sc. DEGREE EXAMINATION, JANUARY 2009

General Biotechnology

GBT 103—MICROBIOLOGY

Time : Three Hours

Maximum : 80 Marks

Section A

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

1. Discuss in detail on the role of microbes in the transformation of organic matter.
2. Write a detailed note on Biological nitrogen fixation.
3. Describe in detail on the various types of disinfectants and antibiotics. Add a note on their specific role against pathogens.

(2 X 10 = 20 marks)

Section B

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

4. Differentiate budding, endospores and conidiospores.
5. Distinguish Cyanobacteria and microalgae.
6. Chlorination.
7. Microflora of milk.
8. Methods used for microbial growth measurement.
9. *Rhizobium*-Legume symbiosis.
10. Rabies.
11. Lytic cycle.
12. Modes of Reproduction in Fungi.
13. Preservation of milk products.
14. Aflatoxin.
15. Bacterial Examinations of Drinking water.

(10 x 5 = 50 marks)

Turn over

Section C

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

16. Peptidoglycan.
17. Auxenic culture.
18. VAM.
19. BOD.
20. Advantages of filter sterilization.

(5 x 2 = 10 marks)