

D 41360

Name.....

Reg. No.....

FIRST SEMESTER M.Sc. DEGREE EXAMINATION, JANUARY 2008

General Biotechnology
GBT 103—MICROBIOLOGY

Time : Three Hours

Maximum : **80 Marks**

Section A

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

1. Write a detailed note on the various culture methods followed for isolation, purification and maintenance of bacteria.
2. Describe in detail on the structural variations of bacteria, fungi and **cyanobacteria**.
3. Give an account of food preservation process.

(2 x 10 = 20 marks)

Section B

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

4. Differentiate bacteria and **cyanobacteria**.
5. Pasteurization.
6. Theory of spontaneous generation and biogenesis.
7. Growth curve.
8. **Anabaena-Azolla** symbiosis.
9. Mineralization.
10. Disinfectants.
11. Smallpox.
12. Structural variations among viruses.
13. Biological treatment of wastewater.
14. Viral diseases of humans.
15. **Glycolysis**.

(10 x 5 = 50 marks)

Section C

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

16. **Spirulina** and Spirochete.
17. **Hormogones** and **Akinetes**.
18. **Cryopreservation**.
19. Thermal death point.
20. Synchronous culture.

(5 x 2 = 10 marks)