

C 33006

(Pages : 2)

Name.....

Reg. No.....

**SECOND SEMESTER M.Sc. DEGREE EXAMINATION  
AUGUST 2007**

General Biotechnology

**GBT 202 – MOLECULAR BIOLOGY**

(Regular / Improvement / Supplementary)

Time : Three Hours

Maximum : 80 Marks

**Section A**

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

- s. Discuss about molecular basis for homologous recombination in *E. coli*.
2. Explain the transport of protein through nuclear membrane.
3. Write principle and advantages of different nucleic acid hybridization techniques.

(2 x 10 = 20 marks)

**Section B**

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

4. Ribonuclease P.
5. Hsp70.
6. Satellite RNAs.
7. Tumour suppressor genes in human.
8. Episome.
9. Sigma factor.
10. Replicon.
11. Cyclic AMP.
12. Resolvase.
13. Map Unit and Map distance.
14. Write about the role of Topoisomerases.
15. How does RNA polymerase find promoter sequence?

(10 x 5 = 50 marks)

Turn over

## Section C

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

16. Alkaline phosphate.
17. IPTG.
18. Transformosome.
19. Isoschizomers.
20. Antisense RNA.

(5 x 2 = 10 marks)

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