Name

Reg. No·····

SECOND SEMESTER M.Sc. DEGREE EXAMINATION SEPTEMBER/OCTOBER 2004

General Biotechnology

GBT 202MOLECULAR BIOLOGY

Time : Three Hours

Maximum : 80 Marks

Section A

Answer any two questions.

1. Compare and contrast the translation process in prokaryotes and eukaryotes.

- Oncoproteins may regulate gene expression—Dis
- 3. Give a detailed account of protein targeting and class.

(2 x 10 = 20 marks)

Section B

Answer any ten questions.

4. What are the enzymes and accessory proteins involved in DNA replication ?

What is the role of Sigma factor ?

Describe the ribozymes.

Give an account of genomic libraries.

- 8. What are restriction enzymes ?
- 9. Compare and contrast the plasmids and cosmids.
- 10. Explain antibody-based screening for recombinant proteins.

What is transcription termination?

- 1.2. RecA triggers the SOS system—Explain.
- 13. What are transposons ?
- 14. What is the function of RNA polymerase ?

Explain the receptor-mediated endocytosis.

(10 x 5 = 50 marks)

Section C

Answer all questions.

Ubiquitin.

17. RNA splicing. Replisome SELEX Shine-Dalgarno sequences.

 $(5 \ge 2 = 10 \text{ marks})$

D 14(36