

D 9182

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Name.....

Reg. No.....

**THIRD SEMESTER M.Sc. DEGREE EXAMINATION
NOVEMBER 2010**

Microbiology

M.B. 3.2 T – MOLECULAR BIOLOGY

(2005 Admissions)

Time : Three Hours

Maximum : 80 Marks

Part A

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

Write very briefly on :

1. Rolling circle replication.
2. Pribnow Box.
3. Trans-conjugant.
4. Oncogenes.
5. Specialized transduction.
6. Transposase.
7. Okazaki fragments.
8. Mismatch repair.
9. Polymerase Chain Reaction.
10. Shot-gun cloning.
11. Phage conversion.
12. Reversion.
13. Post-translation repair.
14. Homologous recombination.
15. Mosaic gene.
16. Insertion sequences.
17. SDS PAGE.
18. Rec A protein.
9. Open reading frame.
1. Helicase.

(20 x 2 = 40 marks)

Turn over

Part B

*Answer any **five** questions.*

*Each question carries **8** marks.*

Write notes on :

1. Regulation of translation in prokaryotes.
2. Importance of weak chemical interactions (bonds) in DNA.
3. Role of DNA polymerase in DNA replication.
4. Modes of life cycle in bacteriophages.
5. Viral and cellular oncogenes.
6. Transposons.
7. Post translational modifications of proteins.

(5 × 8 40 marks)

