

D 28442

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Name.....

Reg. No.....

THIRD SEMESTER M.Sc. DEGREE EXAMINATION, FEBRUARY 2007

Microbiology

M.B. 32 T—MOLECULAR BIOLOGY

(As per 2005 admission syllabus)

Time : Three Hours

Maximum : 80 Marks

Section A

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

Write very briefly on :

1. C-Value Paradox.
2. Selfish DNA.
3. Wobble Hypothesis.
4. Temperate **phage**.
5. **Transposase**.
6. **F-Plasmid**.
7. **Operon**.
8. Nucleotide.
9. SOS repair.
10. Viral **oncogenes**.
11. **Histone**.
12. RNA **polymerase**.
13. Rolling circle replication.
14. RNA splicing.
15. **Antisense RNA**.
16. **PCR**.
17. **Leucine Zipper**.
18. House-keeping gene.
19. **Klenow** fragment.
20. **Bacteriophage Mu**.

(20 x 2 = 40 marks)

Turn over

Section B

*Answer any **five** questions.
Each question carries **8** marks.*

Write notes on :

1. **mRNA** processing in **Eukaryotes**.
2. **Control** of gene expression in Prokaryotes.
3. Chromosome organization.
4. Gene transfer mechanisms in Bacteria.
5. Characteristics of cancerous cells.
6. Watson and Crick model of DNA.
7. Transposable elements in Prokaryotes.

(5 x 8 = 40 mark")