

**D 31394**

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Name.....

Reg. **No**.....

**THIRD SEMESTER M.Sc. DEGREE EXAMINATION, DECEMBER 2012**

(CUCSS)

Microbiology

MB 3C 10—MOLECULAR BIOLOGY

(2010 admissions)

Time : Three Hours

Maximum : 36 Weightage

I. Write short notes to the following :

Answer *all* questions. Each question carries 1 weightage.

- 1 Nucleosides.
- 2 Co-repressor.
- 3 Okazaki fragments.
- 4 Z-DNA.
- 5 rRNA.
- 6 Satellite DNA.
- 7 Bacterial transformation.
- 8 AP endonuclease.
- 9 Oncogenes.
- 10 Replicative transposition.
- 11 Primosome.
- 12 Chargaff rule.
- 13 Amino acyl tRNA synthetase.
- 14 Attenuation.

(14 x 1 = 14 weightage)

**II.** Write short paragraph answers to the following :

Answer any *seven* questions. Each question carries 2 weightage.

- 15 Lysogenic phages.
- 16 Insertion sequences.
- 17 Recombinational repair.
- 18 Conjugative plasmid transfer.
- 19 Nucleosome.
- 20 Inducible operon.

**Turn over**

- 21 Tumor suppressor proteins.
- 22 D loop replication.
- 23 Overlapping genes.
- 24 RNA editing.

(7 x 2 = 14 weightage)

III. Explain the following :

Answer any *two* questions. Each question carries 4 weightage.

- 25 Discuss repetitive DNA.
- 26 Explain translation in prokaryotes.
- 27 Discuss lytic phages.

(2 x 4 = 8 weightage)