

D 6789

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Name

Reg. No.....

THIRD SEMESTER M.Sc. DEGREE EXAMINATION, DECEMBER 2016

(CUCSS)

Microbiology

MB 3C 10—MOLECULAR BIOLOGY

Time : Three Hours

Maximum 36 Weightage

Section A

I. Write short answers to the following. Answer *all* questions :

- 1 Ribozyme.
- 2 RNA editing.
- 3 RB gene.
- 4 Tn5 Transposon.
- 5 RNA interference.
- 6 Molecular markers.
- 7 DNA hypochromicity.
- 8 Okazaki fragment.
- 9 Operon.
- 10 Protooncogenes.
- 11 Adapters and Linkers.
- 12 C-Value paradox.
- 13 Antisense RNA.
- 14 SOS repair.

(14 x 1 = 14 weightage)

II. Write short paragraph answers to the following. Answer any *seven* question :

- 15 Trp operon.
- 16 Eukaryotic transcriptional factors.
- 17 Features of genetic code.
- 18 Bacteriophage replication.
- 19 DNA recombination.

Turn over

- 20 Mechanism of transposition.
- 21 Rho dependent termination.
- 22 DNA polymerases of prokaryotes.
- 23 Specialized transduction.
- 24 Rolling circle replication.

(7 x 2 = 14 weightage)

III. Explain the following. Answer any *two* :

- 25 Write an essay on Oncogenes and Tumour suppressor genes in human.
- 26 Describe the mechanism of DNA replication. What are the enzymes necessary during this process?
- 27 Describe the molecular mechanism of transcription in eukaryotes and discuss how it differ from prokaryotes.
- 28 Explain the structure, positive and negative regulation of Lac operon.

(4 x 2 = 8 weightage)