

D 91669

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Name

Reg. No.....

THIRD SEMESTER M.Sc. DEGREE EXAMINATION, DECEMBER 2015

(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 D-Loop.
- 2 Wobble Hypothesis.
- 3 Codon usage.
- 4 Splicing.
- 5 Hfr strain.
- 6 Promoter.
- 7 House-keeping gene.
- 8 Episome.
Transfection.
- 10 Proto oncogenes.
- 11 SOS repair.
- 12 Attenuation.
- 13 LINE and SINE.
- 14 Tn 10 transposon.

(14 x 1 = 14 weightage)

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

- 15 RNA processing.
- 16 Post transcriptional modification.
- 17 Complex transposon.
- 18 DNA repair mechanisms.
- 19 Three possible mode of DNA replication.
- 20 How conjugation help gene mapping ?

Turn over

21 Viral and cellular oncogenes.

22 Trp operon and its regulation.

23 Different types of Plasmids.

24 Features of genetic code.

(7 x 2 = 14 weightage)

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

25 Translation and Post translational modifications in Eukaryotes.

26 Gene regulation of prokaryotes with suitable example.

27 Gene transfer mechanisms in bacteria and how they help for genome analysis in bacteria.

28 DNA damage and repair mechanisms.

(2 x 4 = 8 weightage)