

D 51738

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Name

Reg. No.....

THIRD SEMESTER M.Sc. DEGREE EXAMINATION, DECEMBER 2013

(CUCSS)

Microbiology

MB 3C 10—MOLECULAR BIOLOGY

(2010 Admissions)

Time : Three Hours

Maximum : 36 Weightage

I. Write short answers to the following. Answer *all* questions. Each question carries 1 weightage :

1. Nucleotides.
2. Operator.
3. Pribnow box.
4. Reverse transcriptase.
5. t-RNA.
6. Attenuation.
7. Hfr strain.
8. Uracil N glycosylase.
9. Oncoviruses.
10. Conservative transposition.
- 11: Helicases.
2. Spliceosome.
13. Chargaff's rule.
14. Xeroderma pigmentosum.

(14 x 1 = 14 weightage)

II. Write short paragraph answers to the following. Answer any *seven* questions. Each question carries 2 weightage :

15. Lytic phage.
16. Complex transposons.
17. SOS response system.
18. R-plasmid.

Turn over

19. C-value paradox.
20. Polycistronic mRNA.
21. p53.
22. Alternative splicing.
23. Trp operon.
24. Rolling circle replication.

(7 x 2 = 14 weightage)

III. Explain the following. Answer any *two* questions. Each question carries 4 weightage :

25. Discuss tumor suppressor genes.
26. Explain DNA replication in Prokaryotes.
27. Explain post-transcriptional modifications.

(2 x 4 = 8 weightage)