

C 44087

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Name...

Reg. No

SECOND SEMESTER M.Sc. DEGREE EXAMINATION, AUGUST 2013

(CUCSS)

Microbiology

MB 2C 05—MICROBIAL GENETICS

(2010 Admissions)

Time : Three Hours

Maximum : 36 Weightage

Part A

Answer all questions.

Each question carries weightage of 1.

1. Lac operon.
2. Base substitution mutation.
3. Transposons.
4. Nonsense mutation.
5. Temperate phages.
6. Introns.
7. Electroporation.
8. RTF.
9. Cosmid vector.
10. Nucleotide excision repair.
11. Catabolite repression.
12. F plasmid.
13. Oxidative DNA damage.
14. Minimal medium.

(14 x 1 = 14 weightage)

Part B

*Answer any **seven** questions.*

Each question carries weightage of 2.

15. RFLP.
16. Restriction enzymes.
17. Transformation.
18. Regulation of mRNA synthesis.
19. Chemical mutagens.

Turn over

20. Ames test.
21. Plasmids.
22. PCR.
23. Molecular mechanisms of mutation.

(7 x 2 = 14 weightage)

Part C

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

24. Outline cloning techniques.
25. Describe the construction of genetic map in bacteria.
26. Describe DNA replication.

(2 x 4 = 8 weightage)