

C 28413

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Name.....

Reg. No.....

SECOND SEMESTER M.Sc. DEGREE EXAMINATION, JULY 2012

(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. Nucleoid.
2. Deletion mutation.
3. Nitrosoguanidine.
4. Lethal mutation.
5. Hfr cells.
6. Lysogenic cycle.
7. Shotgun cloning.
8. R plasmid.
9. Replica plating.
10. Base excision repair.
11. Davis's U-tube experiment.
12. Generalized transduction.
13. Open Reading Frame.
14. Stop codon.

(14 x 1 = 14 weightage)

Part B

Answer any seven questions.

Each question carries weightage of 2.

15. DNA repair mechanisms.
16. Physical mutagens.
17. Ames test.
18. Conjugation.
19. Cloning vectors.

Turn over

20. Plasmids.
21. Restriction enzymes.
22. Genetic system in yeast.
23. Phage induced mutation.

(7 x 2 = 14 weightage)

Part C

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

24. Describe DNA replication.
25. Discuss the mechanisms of transfer of genetic elements among bacteria.
26. Describe DNA Finger Printing.

(2 x 4 = 8 weightage)