

16881

Name:

Reg. No.

**FOURTH SEMESTER M.Sc. MICROBIOLOGY DEGREE EXAMINATION,
JULY 2011**

MB4.2T – Genetic Engineering, Biosafety, Bioethics and IPR.

Time: Three hours

Maximum: 80 marks

SECTION – A

**Answer all questions in two or three sentences each.
Each question carries 2 marks)**

1. Yeast artificial chromosome
2. DNA linker
3. cDNA
4. BAC
5. Autoradiography
6. DNA probe
7. DNA library
8. FISH
9. Transgenic organism
10. Patent
11. Gene technology act
12. CDC
13. Biosafety
14. USEPA
15. UPOV Convention
16. Intellectual property
17. Taq Polymerase
18. Recombinant DNA
19. Electroporation
20. Molecular marker.

(20x2=40 marks)

SECTION – B

(Discuss any FIVE of the following. Each question carries 8 marks)

1. Techniques for cutting and joining DNA molecule.
2. Cloning vectors
3. Types of PCR and its applications
4. International initiatives for protection of new varieties.
5. DNA introduction methods.
6. Ethical, legal and social issues (ELSI) of Genetic Engineering.
7. Role of USEPA, USFDA and USDA in implementing bioethics in research.

(5x8=40 marks)

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Name:
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FIRST SEMESTER M.Sc DEGREE EXAMINATION, DECEMBER 2010
Microbiology (Main)
MB.1C.02 —MICROBIAL METABOLISM
(CUCSS)

Time: Three Hours

Maximum: 36 Weightage

Section A

*Answer any **FOURTEEN** questions in **2 or 3** sentences
Each question carries 1 weightage*

1. Define Calorie
2. High energy molecule
3. First law of thermodynamics
4. Electron carrier
5. Endergonic reaction
6. Gluconeogenesis
7. Calcium alginate
8. Competitive inhibitor
9. Trans-amination
10. Cytochromes
11. Oxidoreductases
12. Oxidative phosphorylation
13. Peptidoglycan
14. Siderophore
15. Ricin
16. Amphibolic pathways
17. Fermentation

(14 x 1 = 14 weightage)

Section B

*Write notes on any **SEVEN** of the following
Each question carries 2 weightage*

18. Yield of ATP in glycolysis
19. Co-enzymes and co-factors
20. Nomenclature of enzymes
21. Significance of Hexose monophosphate (HMP) shunt
22. Beta oxidation of fatty acids
23. Bioluminescence