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Name.....

Reg. No......

FIRST SEMESTER M.Sc. DEGREE EXAMINATION, JUNE 2008

Microbiology (Main)

MBI. 1T—GENERAL BIOCHEMISTRY

(2005 Admissions)

Maximum : 80 Marks

Time : Three Hours

Section A

Write short notes on *all* questions.

1. Enantiomers.
2. Chondroitin Sulphates.
3. Zwitterion.
4. Phospho lipids.
5. Waxes.
6. zDNA.
7. Thyroxine.
8. Mineralo corticoids.
9. Cholesterol.
10. Thiamino.
11. Vitamin.K.
12. HPLC.
13. PAGE.
14. Prostaglandins.
15. pH.
16. Essential Fatty Acids.
17. +.RNA.
18. cc-helix.
19. Atomic Absorption Spectroscopy.
20. Sucrose

(20 x 2 = 40 marks)

Section B

Write notes on any *five*.

21. Heteropoly Saccharides.
22. Amino Sugars.
23. Classification of Proteins.
24. Cell Membrane
25. Osmosis.
26. Colloids.
27. 10 n exchange chromatography.

(5 x 8 = 40 marks)

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Name.....

Reg. No.

**FOURTH SEMESTER M.Sc. DEGREE EXAMINATION
SEPTEMBER 2007**

Microbiology

MB4.2T – GENETIC ENGINEERING, BIOSAFETY, BIOETHICS AND IPR

(2005 admissions)

Time : Three Hours

Maximum : 80 Marks

Section A

*Answer any **twenty** questions.*

Each question carries 2 marks.

Write briefly on :-

- | | |
|----------------------------------|---|
| 1. PACs. | 2. Linkers and adaptors. |
| 3. Nested PCR. | 4. Oligonucleotide probes. |
| 5. Binary Vector. | 6. Microinfection. |
| 7. Si RNA. | 8. Reporter genes. |
| 9. GMOs. | 10. EPA. |
| 11. Bioethics. | 12. UPOV convention. |
| 13. IPR. | 14. Colony hybridization. |
| 15. Gene technology Act. | 16. Primers. |
| 17. Agarose gel electrophoresis. | 18. PBR ^{amp} |
| 19. Risk analysis. | 20. Patentable subjects in Biotechnology. |
| 21. Restriction enzyme. | 22. Probes. |

(20 x 2 = 40 marks)

Section B

*Answer any **five** questions.*

Each question carries 8 marks.

1. Molecular markers in **genome** analysis.
2. Screening strategies for recombinant **transformant**.
3. Site directed **mutagenesis**.
4. Environmental risk and benefits of gene technology.
5. Product and process patents in Biotechnology.
6. **Bioethics** and Human cloning.
7. **Controversy** regarding patent research tools.

(5 x 8 = 40 marks)