

C 48683

(Pages : 2)

Name

Reg. No.

FOURTH SEMESTER M.Sc. DEGREE EXAMINATION, SEPTEMBER 2008

Microbiology

MB 4 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. Blotting technique.
2. Abundancy probing.
3. BACS.
4. RACE.
5. Codon optimization.
6. Inverse PCR.
7. Leuciferase assay.
8. Biolistics.
9. RNA interference.
10. Nucleic acid microarrays.
11. Therapeutic cloning.
12. TRIPS.
13. Colony hybridization.
14. Autoradiography.
15. Plasmid.
16. cDNA libraries.
17. Gene technology act.
18. GATT.
19. UPOV convention.
20. Policy on the storage of GMOs.
21. Premers.
22. Chemical method of DNA sequencing.

(20 x 2 = 40 marks)

Turn over

Section B

*Answer any **five** questions.
Each question carries **8** marks.*

1. Protein Engineering.
2. Different types of probes.
3. Expression strategies for heterologous genes.
4. **Bioethics** and Embryo research.
5. Patent and IPR.
6. Controversy regarding patented research tools
7. Role of FDA, VSDA and EPA in the Biosafety of GMOs.

(5 x 8 = 40)