

C 48682

(Pages 2)

Name

Reg. No.

FOURTH SEMESTER M.Sc. DEGREE EXAMINATION, SEPTEMBER 2008

Microbiology

MB 4.1T—MICROBIAL BIOTECHNOLOGY

(2005 admissions)

Maximum :80 Marks

Time : Three Hours

Section A

*Answer **all** the questions.
Each question carries 2 marks.*

Write briefly on

1. Baker's yeast.
2. *Azospirillum*.
3. Genetically Modified Foods.
4. Microcarrier Bioreactors.
5. ATPase based cell quantitation.
6. Hydrocarbon biodegradation.
7. Probiotics and their application.
8. Microbial Insecticides.
9. HAT medium in Hybridoma Technology.
10. Biopolymers.
11. Pesticide Biosensor.
12. Micro-encapsulation.
13. *Agrobacterium tumefaciens*.
14. Cyano bacteria.
15. Microbial production and hydrogen.
16. Manipulation of milk flavour.
17. Biosurfactants and its application.
18. Animal cell culture reactors.
19. Bti toxin genes.
20. VAM.

(20 x 2 = 40 marks)

Turn over

Section B

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

Explain the following : —

1. Bioinsecticides.
2. Single cell protein.
3. Microbial leaching of ores.
4. Biodegradation of pesticides.
5. Methods of immobilization.
6. Genetic Engineering in Environmental Microbiology.
7. Recombinant Vaccines.

(5 x 8 = ~~40~~ marks)