

C 48357

(Pages 2)

Name.....

Reg. No.....

SECOND SEMESTER M.Sc. DEGREE EXAMINATION, AUGUST 2008

Microbiology

MB.2 3T—INDUSTRIAL MICROBIOLOGY

(2005 admissions)

Time : Three Hours

Maximum :80 Marks

Section A

*Write about/ Answer **all** the questions each in 2 or 3 sentences.
Each question carries 2 marks.*

1. Screening of amino acid producing organisms.
2. Continuous fermentation.
3. Malting.
4. Hops.
5. Dry wine.
6. Lactic acid production.
7. Rotary vacuum filtration.
8. **Streptomyces griseus**.
9. Vitamin **B₁₂** production.
10. Baffles in **fermentors**.
11. **Spargers**.
12. Airlift **fermentors**.
13. Fluidised bed **fermentor**.
14. **Antifoam** agents.
15. **Biphasic** separation.
16. Tetracycline production.
17. *Clostridium acetobutylicum*.
18. Food yeasts.
19. *Saccharomyces cerevisiae*.
20. **Multichamber** bowl centrifuge.

(20 x = 40 marks)

Turn over

Section B

*Write note on / Discuss any **five** of the following.
Each question carries 8 marks.*

21. Bioprocess media formulation.
22. Bioreactor design.
23. Downstream processing.
24. Production of Penicillin.
25. Microbial production of ethanol.
26. Importance of fermentations in ayurvedic medicines.
27. Sterilization systems for bioprocesser.

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