

D 33374

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Name

Reg. No.....

**FIRST SEMESTER M.Sc. DEGREE EXAMINATION
FEBRUARY 2013**

(CUCSS)

Microbiology

MB 1C 04 – INDUSTRIAL MICROBIOLOGY

(2010 Admissions)

Time : Three Hours

Maximum : 36 Weightage

Section A

Write briefly on the following.

Weightage for each answer is 1.

- | | |
|---------------------------------|--------------------------|
| 1. Crowded plate technique. | 2. Strain improvement. |
| 3. Enzyme immobilisation. | 4. Antifoaming agent. |
| 5. Fermentation. | 6. Secondary metabolite. |
| 7. Synthetic media. | 8. Stock culture. |
| 9. <i>Lactobacillus casei</i> . | 10. Penicillin. |
| 11. <i>Acetobacter</i> . | 12. Phage infection. |
| 13. Sparger. | 14. <i>Chlorella</i> . |

(14 x 1 = 14 weightage)

Section B

*Write notes on any **seven**.*

Weightage for each answer is 2.

15. Antibiotics.
16. Chromatography.
17. Citric acid production.
18. Bioreactor.
19. Amylases from Fungi.
20. Lactic acid bacteria.

Turn over

- 21. Patents
- 22. Bioassays.
- 23. Media Economics.

(7 x 2 = 14 weight)

Section C

Answer the following.

Weightage for each answer is 4.

- 24. Design of Industrial fermentors.
- 25. Importance of fermentations in Ayurvedic medicines.
- 26. Downstream processing.

vi

(2 x 4 = 8 weight)