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(Pages : 2)

Name

Reg. No.....

**IRST SEMESTER M.Sc. DEGREE EXAMINATION, JANUARY 2014**

(CUCSS)

Microbiology

MB IC 04—INDUSTRIAL MICROBIOLOGY

Time : Three Hours

Maximum : 36 Weightage

**Section A**

*Write briefly on the following, weightage for each answer is 1.*

1. Seed tank.
2. Molasses.
3. Salting out.
4. Vinegar.
5. Secondary metabolite.
6. Alexander Fleming.
7. Wild type.
8. Bottom fermenting.
9. *Penicillium chrysogenum*.
10. Sparger.
11. SCP.
12. Biphasic separation.
13. Bakers' yeast.
14. Biological assay.

(14 x 1 = 14 weightage)

**Section B**

*Write notes on any seven, weightage for each answer is 2.*

15. Medium Development.
16. Acetone-Butanol fermentation.
17. Bioassays.
18. Manufacture of Beer.
19. Continuous fermentations.
20. Media economics.

Turn over

21. Secondary screening.
22. Chromatography.
23. Patents.

(7 x 2 = 14 weightage)

**Section C**

*Write an essay on any **two** of the following.  
Each question carries 4 weightage.*

24. Downstream processing.
25. Industrial fermentation of wine and beer.
26. Design of Industrial fermentors.

(2 x 4 = 8 weightage)