C 17493	(Pages s 2)	Name
		Reg. No

SECOND SEMESTER M.Sc. DEGREE EXAMINATION JULY 2011

Microbiology

MB2 3T - INDUSTRIAL MICROBIOLOGY

(2005 Admissions)

Time: Three Hours

Maximum: 80 Marks

Section A

Write about I answer **all** the questions, each in two **or** three sentences. Each question carries 2 marks.

- 1. Auxanography.
- 2. Mutagenic effect of UV rays.
- 3. Turbidostat.
- 4. Fluidised bed fermentor.
- 5. Control of temperature in bioreactors.
- 6. Corn-steep liquor.
- 7. Baffles.
- 8. Ultra filtration.
- 9. Disk stack centrifuge.
- 10. 'Fining' of broth.
- 11. Lyophilization.
- 12. Biphasic seperation.
- 13. Genetic improvement of penicillin producing Penicillium chrysogenum.
- 14. Vitamin **B₁₂** production.
- 15. Surface mat culture.
- 16. Continuous extractive fermentation.
- 17. Sweet wine.
- 18. Hops.
- 19. Baker's yeast.
- 20. Malting.

 $(20 \times 2 = 40 \text{ marks})$

Turn over

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Section B

Write note on / discuss any five of the following.

Each question carries 8 marks.

- 1. Production of single cell protein.
- 2. Importance of fermentation in ayurvedic medicines.
- 3. Acetone-butanol fermentation.
- 4. Mashing.
- 5. Filtration techniques.
- 6. Sterilization media and fermentors.
- 7. Continuous fermentation.

 $(5 \times 8 = 40 \text{ marks})$