D 12978	(Pages : 2)	Name
		Reg. No

THIRD SEMESTER M.Sc. DEGREE EXAMINATION, FEBRUARY 2006

Microbiology

Paper IX—INDUSTRIAL MICROBIOTECHNOLOGY SPECIFIC CLASSICAL BIOPROCESSES

Time: Three Hours Maximum: 80 Marks

Section A

Answer all questions in 2 or 3 sentences.

- 1. Film based bioreactors.
- 2. UASB reactor.
- 3. Polyhydroxybutyrate.
- 4. Applications of Proteases.
- 5. Catabolite plasmids.
- 6. Fluidized bed reactors.
- 7. Plasmid assisted molecular breeding.
- 8. Xanthemgum production.
- 9. Aerated logoon.
- 10. Microbiology of composting.
- 11. Enrichment culture.
- 12. Total organic carbon.
- 13. Microbial emulsifiers.
- 14. Fermentative production of Vitamin B₁₂.
- 15. Solid state fermentation.
- 16. Importance of steroid transformation.
- 17. Imhoff tank.
- 18. Lactic acid starter culture.
- 19. Solid waste management.
- 20. Importance of fermentations in ayurvedic medicines.

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

Turn over

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Section B

Answer any five questions.

- 1. Ethanol fermentation from molasses.
- 2. Microbial enzyme production.
- 3. Fermentative production of aminoacids.
- 4. Aerobic waste water treatment methods.
- 5. Fermentative production of penicillin.
- 6. Biodegradation and its applications.
- 7. Methods of composting.

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