D 13242	(Pages : 2)	Name
		Reg. No

FIRST SEMESTER M.Sc. DEGREE EXAMINATION, DECEMBER 2016

(CUCSS)

Microbiology

MB 1C 04—INDUSTRIAL MICROBIOLOGY

Time: Three Hours Maximum: 36 Weightage

Section A

Write briefly on the following. Weightage for each answer is 1.

1. Mass transfer coefficient. 8. B.O.D.

2. Enrichment culture. 9. Fed batch culture.

3. Protoplast fusion. 10. Impeller.

4. Salting out. 11. Algae as SCP.

5. Probiotics. 12. C glutamicum.

6. Bottom Yeast. 13. Idiophase.

7. Monosodium glutamate. 14. Synchronous growth.

 $(14 \times 1 = 14 \text{ weightage})$

Section B

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

- 15. Fermentative production of pencillin.
- 16. Strain improvement strategies.
- 17. Production of lactic acid from whey.
- 18. Explain the microbial growth kinetics in batch culture.
- 19. Discuss yeast as industrially important organism.
- 20. Statistical methods employed for media formulation.
- 21. Production of beer.
- 22. How will you isolate and screen lipase producers.
- 23. SCP as feed.
- 24. Explain wine preparation.

 $(7 \times 2 = 14 \text{ weightage})$

Turn over

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Section C

Answer any two of the following. Weightage for each answer is 4.

- 25. Describe downstream processing employed for separation and purification of industrially important product with suitable example.
- 26. Discuss importance and production of Single Cell Protein.
- 27. Explain different detection and assay methods for fermentation products.
- 28. Discuss instrumentation in bioreactors.

 $(2 \times 4 = 8 \text{ weightage})$