

Total No. of Pages: 2

5339

Register Number:

Name of the Candidate:

B.Sc. DEGREE EXAMINATION, May 2015

(MICROBIOLOGY)

(THIRD YEAR)

(PART – III)

740: INDUSTRIAL MICROBIOLOGY

Time: Three hours

Maximum: 100 marks

SECTION - A

Answer any TEN questions

(10 × 2 = 20)

1. Mutation
2. Recombination
3. Protoplasmic fusion
4. Fermentation
5. Airlift fermentor
6. Batch fermentation
7. Vitamin B12
8. Riboflavin
9. Amylases
10. Butamol
11. Bakes yeast
12. Pleurotus
13. Butyric acid
14. Centrifugation
15. Filtration

SECTION - B

Answer ALL questions

(5 × 7 = 35)

16. a) Explain the industrially important strains
(OR)
b) Discuss the screening methods of strains.
17. a) Distinguish between submerged and solid state fermentation.
(OR)

- b) Narrate the types of fermenters.
18. a) Discuss about the method of immobilization.
(OR)
b) Explain the production of antibiotics.
19. a) Write a brief account on production of spirulina.
(OR)
b) Enlist the features of Agaricus and Plurotus
20. a) Write about the causes of breakage of cells
(OR)
b) Give a brief account on intracellular and extracellular processes

SECTION - C**Answer any THREE questions****(3 × 15 = 45)**

21. Discuss elaborately the strain development for improved yield.
22. Explain the components of a CSTR.
23. Describe the production of beverages.
24. Write about the production of oyster and button mushrooms.
25. Write an essay on downstream process.

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