CODE: 6253 (CBCS)

PITHAPUR RAJAH'S GOVERNMENT COLLEGE (AUTONOMOUS), KAKINAI VI-SEMESTER END EXAMINATIONS-MARCH-2019 III YR B.Sc., SUBJECT/ PAPER: MICROBIOLOGY- CLUSTER -IA/PAPER-8

INDUSTRIAL MICROBIOLOGY

DATE: 18.03.2019 (MONDAY), TIME: 09.00 AM

Marks: 70

Reg. No.

Duration: 3 I

PART-A

Answer All the following questions .

5X2=10M

- 1. Yeast
- 2. Biopesticides
- 3. Fermentation media
- 4. Agitation
- 5. SCP

PART-B

5X4=20M

Answer any FIVE of the following. Draw labelled diagram wherever necessary.

- 6. Actinomycetes
- 7. Submerged fermentation
- 8. Production of antibiotics
- 9. Biogas
- 10. White button mushroom
- 11. Strain improvement
- 12. Probiotics
- 13. Biofuels

PART-C

4X10=40M

Answer any FOUR of the following. Draw labelled diagram wherever necessary.

14. Describe the characteristic features of any four industrially importance of microorganisms?
(OR)

Write about biofertillizers with respect to rhizobium?

15. Describe briefly about screening and isolation technique?

(OR

Describe various methods involved in strain improvement?

16. Define fermentation? Describe briefly the various types of fermentation process?

(OR

Write about design of a stirred fermentor?

17. Explain commercial production of industrial alcohol using molasses as raw materials?

(OR)

Discuss various steps involved in industrial production of vitamin B12?