[Max. Marks: 100]

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## **Bioprocess Technology** (RS 2 & RS 3) **O.P. CODE: 9313**

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Your answers should be specific to the questions asked Draw neat labeled diagrams wherever necessary

## LONG ESSAY (Answer any FOUR)

- 1. Describe the effect of aeration, agitation and mass transfer in fermentation equipment. 25
- 2. Discuss the rheology of fermentation systems and its importance in fermenter operation.
- 3. Short note on (ii) Bioautographic technique (iii) Disintegration (i) Enzymatic assays (9 + 8 + 8 = 25)4. Explain about the overview of economics in general fermentation process (12+13 = 25)

5. Discuss all the aspects of Isolation and purification of fermentation and biological products.

- 6. Explain the following terms
  - a) Michaelis menten constant
  - b) Effect of temperature on reaction rate
  - c) Thermal death of microorganism

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## [Time: 3 Hours]

(12+13 = 25)

4 X 25 = 100 Marks

(13+10+5=25)

