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

LONG ESSAY (Answer any FOUR)

4 X 25 = 100 Marks

- a) Explain types of reactions and Michaelis Mention constant
 b) Explain the effect of temperature and pH on enzyme production
- a) Describe in detail the design and operation of fermentersb) Write on scale up of fermentation process of any one antibiotics
- a) What are mass transfer coefficients, explain the factors affecting themb) Explain the advantages and limitations of continuous fermentation systems
- 4. a) Describe the different chromatographic techniques employed in the purification of biological products
 - b) Explain the significance of rheology in fermenter operation
- 5. a) Explain air sterilization methods in detailb) Write on thermal death of micro organisms
- 6. Write short notes on:
 - a) Determination of bacterial growth rate
 - b) Metabolic response assays
 - c) Control of foam in fermentation process
 - d) Effect of substrate concentration in enzyme production
 - e) Solvent extraction

