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

LONG ESSAY (Answer any FOUR)

4 X 25 = 100 Marks

- a) Write a note on enzymes. Explain the production of amylase
 b) Write on immobilized enzyme engineering
- a) Explain in detail the optimization of fermentation parametersb) Describe the biosynthesis of erythromycin
- a) Explain the production and applications of monoclonal antibodiesb) Write about Hybrid DNA formation
- a) Plant cell cultures as alternative sources of phytochemicals. Explain with examplesb) Explain the media composition of plant cell cultures
- 5. Write on: 1) VDRL and Pregnancy test 2) Protoplast fusionb) Explain the economic importance of biotech products W.r.t. antibiotics
- 6. Write short notes on:
 - a) Penicillin
 - b) Estimation of molecular weight of proteins
 - c) Multi step immobilized enzyme systems
 - d) Urokinase
 - e) ELISA
