



PHARMACEUTICAL BIOTECHNOLOGY - II

(Revised Scheme 2)

Q.P. CODE : 9314

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

1. Discuss:
a) Design and operation of immobilized enzyme reactors.
b) Kinetics of immobilized enzymes
c) Diagnostic tests
(10+10+5 = 25)
2. Discuss :
a) Optimisation of fermentation parameters
b) Glutamic acid biosynthesis
(10+15 = 25)
3. Discuss: Fermentative production of streptokinase and cellulase
4. Broadly discuss techniques and application of genetic engineering
5. Write short notes on
a) Monoclonal antibody production and applications
b) Importance of databases in biology
(12+13 = 25)
6. Write short notes on:
a) HIV (b) VDRL (c) VACCINE (d) BIOINFORMATICS (E) IMMUNOCLONES

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