

PY - 704

B.Pharmacy VII Semester

Examination, December 2013

Pharmaceutical Biotechnology

Time : Three Hours

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Maximum Marks : 70

- Note:** 1. Attempt any Five questions.
2. All questions carry equal marks.

1. a) Explain design of a fermenter. 7
b) Write the control of different parameters in fermentation process. 7
2. a) Explain the concept of monoclonal antibodies. 7
b) What is biotransformation? 7
3. a) State in detail, gene cloning and its applications. 7
b) Explain different drug delivery systems in gene therapy. 7
4. a) Explain in details, human immune system. 7
b) Write method of preparation of any 3 immune products. 7

- a) Recombivax HB
- b) Humatrope
- c) Streptomycin
- d) Amylase

6. a) Explain biotransformation process and its applications. 7
b) Write the techniques for immobilization of enzymes. 7
7. a) Write about protoplast fusion in plants 7
b) Explain enzyme kinetics 7
8. Prepare notes on followings: (Any two) 7×2=14
a) Streptokinase
b) Humulin
c) Introne A

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