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Roll No .....

PY-704 (GS)

B.Pharmacy VII Semester

Examination, June 2020

Grading System (GS)

Pharmaceutical Biotechnology

Time : Three Hours

Maximum Marks : 70

Note: i) Attempt any five questions.
ii) All questions carry equal marks.

1. Describe fermentative production of Alcohol with suitable diagram.

2. Discuss about various techniques of immobilization special attention to covalent Binding.

3. Describe various types of antigen-antibody reactions along with their applications.

4. Define microbiological transformation reaction mediated by micro-organisms.

5. Explain the term 'Enzyme Immobilization'. Classify the methods of enzyme immobilization and elaborate covalent immobilization on the surface of solid supports with chemistry involved there in.

6. a) Discuss various factors affecting enzyme kinetics.
   b) Describe various enzyme based sensors.

7. a) Differentiate between vaccines and toxoids.
   b) Define the term "Aerobic fermentation".

   OR

   What is "Activase"? How it is produced?

8. Write short note on any two:
   a) Cellular Humoral Immunity
   b) Gene therapy
   c) Gene cloning
   d) Antigen-antibody reaction

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