

[BPHARM 0921]

SEPTEMBER 2021
(SEPTEMBER 2020 EXAM SESSION)

Sub. Code: 2066

B. PHARMACY DEGREE EXAMINATION
PCI Regulation 2017 - SEMESTER - VI
PAPER V – PHARMACEUTICAL BIOTECHNOLOGY
Q.P. Code : 562066

Time: Three hours

Maximum: 75 Marks

I. Elaborate on: Answer any TWO questions. (2 x 10 = 20)

1. Discuss in detail the types and working principle of biosensor with examples.
2. Describe the production of Hepatitis-B vaccine by rDNA technology.
3. Discuss in detail step-wise production process of killed Bacterial Vaccine.

II. Write notes on: Answer any SEVEN questions. (7 x 5 = 35)

1. Describe shortly the steps involved in genetic engineering technique.
2. Discuss characteristics of restriction endo nuclease enzyme.
3. Explain Bacterial Conjugation process.
4. Discuss the production of Glutamic acid by fermentation method.
5. Describe briefly the production of Monoclonal Antibody.
6. Differentiate between active immunity and passive immunity.
7. Write the Application of western blotting technique.
8. Add a note on Plasma Substitutes.
9. Explain different types of Mutation.

III. Short answers on: Answer ALL questions. (10 x 2 = 20)

1. Define Immobilization.
2. What is the industrial application of Protease?
3. What is selective amplification?
4. Define shuttle vectors.
5. Define Toxoid with example.
6. Give two examples for viral vaccines.
7. Define Transduction process.
8. What is Immunoblotting?
9. Define Fermentation.
10. Name the Microorganism used for production of Citric acid.
