



SNS COLLEGE OF PHARMACY AND HEALTH SCIENCES

Sathy Main Road, SNS Kalvi Nagar,
Saravanampatti Post, Coimbatore - 641 035,
Tamil Nadu.



DATE: 08/08/2025

DURATION - 1 HR

III - B PHARMACY - VI SEMESTER
I SESSIONAL THEORY EXAMINATION
PHARMACEUTICAL BIOTECHNOLOGY- 562066

Total Marks: 30

Section A: Elaborate on: Answer any ONE Question

1x10 = 10

1. Define vaccine. Explain the general method of preparation of a viral vaccine with suitable examples. *(May 2022 – University Exam, GPAT 2020, NIPER, Drug Inspector, MRB 2019)*
2. Explain the production of monoclonal antibodies using Hybridoma technology and add a note on its applications. *(Oct 2022 – University Exam, GPAT 2021, NIPER 2022, MRB)*

Section B: Write notes on: Answer any TWO Question

2x5 = 10

1. Production of Insulin using recombinant DNA technology. *(March 2023 – University, GPAT 2022, NIPER)*
2. Structure and functions of Major Histocompatibility Complex (MHC). *(August 2023 – University, GPAT 2023)*
3. Collection and storage of whole human blood and its derivatives. *(March 2023 – University, MRB 2022 (TN Health Dept), ESIC)*

Section C: Write notes on: Answer ALL Questions

5x2 = 10

1. What is Southern blotting? Mention one pharmaceutical application. *(Oct 2022 – University Exam)*
2. What is Polymerase Chain Reaction (PCR)? State one of its applications. *(March 2021, GPAT, NIPER)*
3. What are restriction endonucleases? Give one application in gene cloning. *(March 2023 – University, GPAT)*
4. Define a biosensor and mention one of its applications in the pharmaceutical industry. *(Jan 2022 – University, GPAT, NIPER)*
5. Write any two applications of ELISA. *(May 2024 – University Exam, GPAT)*

_____ ALL THE BEST _____



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