

SNS COLLEGE OF PHARMACY AND HEALTH SCIENCES

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



DATE: 02/09/2025 DURATION - 3 HOURS

III - B PHARMACY - VI SEMESTER MODEL THEORY EXAMINATION PHARMACEUTICAL BIOTECHNOLOGY- 562066

Total Marks: 75

Section A: Elaborate on: Answer any TWO questions

(2x10 = 20)

- Biosensors types, principles & applications. (Mar 2021, Sep 2021, Jan 2022, Aug 2023, Dec 2023, May 2024, GPAT, NIPER)
- 2. Recombinant DNA technology (rDNA): Restriction enzymes &cloning vectors. (*Mar 2021, May 2022, Mar 2025, GPAT, NIPER*)
- 3. Immobilization of enzymes methods & applications. (Mar 2021, Jan 2022, Mar 2023, Oct 2024, GPAT, NIPER)

Section B: Write notes on: Answer any SEVEN Question

(7x5 = 35)

- 1. Polymerase Chain Reaction (PCR) steps & applications (Mar 2021, Jan 2022, May 2022, Oct 2022, May 2024GPAT, NIPER)
- 2. Production of Insulin by genetic engineering. (Jan 2022, Mar 2023, GPAT 2022, NIPER)
- 3. Production of Penicillin by fermentation. (Oct 2022, Mar 2025, Oct 2024, GPAT, NIPER, MRB)
- 4. Define Immunity. Differentiate between Active & Passive immunity (Sep 2021, Aug 2023, GPAT 2023, NIPER)
- 5. Plasma Substitutes / Blood products (Sep 2021, Aug 2023, Dec 2023, May 2024, Drug Inspector, MRB)
- 6. ELISA technique. (Mar 2023, May 2024, Oct 2024, GPAT, NIPER, Drug Inspector)
- 7. Western blotting technique (Mar 2021, Mar 2023, GPAT, NIPER)
- 8. Applications of Genetic Engineering (Mar 2021, May 2024, GPAT, NIPER, Drug Inspector)
- 9. Hypersensitivity reactions. (Mar 2021, Oct 2022, May 2024, GPAT, NIPER)

Section C: Write notes on: Answer ALL Questions

(10x2 = 20)

- 1. Define Transduction process (Sep 2021, Oct 2024, Mar 2025, GPAT, NIPER)
- 2. Define Protein engineering (Mar 2021, Mar 2025, GPAT, NIPER)
- 3. Define Sparger (Mar 2021, May 2024, Oct 2024, GPAT, NIPER)
- 4. Define Conjugation (Oct 2022, May 2024, GPAT, NIPER)
- 5. Define Transduction process (Sep 2021, Oct 2024, Mar 2025, GPAT, NIPER)
- 6. Define Fermentation (Oct 2024, Mar 2025, GPAT, NIPER)
- 7. Define Genome (Mar 2021, GPAT)
- 8. Define Immobilization (Mar 2021, May 2024, GPAT, NIPER)
- 9. What is Mutagenesis? (May 2022, May 2024.GPAT)
- 10. What is the Triple vaccine? (Mar 2023, Dec 2023, GPAT, NIPER)

		ALL THE BEST	
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