

CBCS SCHEME

Librarian
Learning Resource Centre
USN
Acharya Institute & Technology

18BT72

Seventh Semester B.E. Degree Examination, Feb./Mar. 2022

Clinical and Pharmaceutical Biotechnology

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

- 1 a. Discuss on Physiochemical consideration in manufacturing of Biotech products and Herbal medicine. (10 Marks)
b. Explain concepts and testing of Preformulation aspects of Pharmacoproduet. (10 Marks)

OR

- 2 a. Define Capsules. Explain the process of manufacturing of hard gelatin capsule. (10 Marks)
b. Discuss on various packaging material used for construction of containers in Pharma Industries. (10 Marks)

Module-2

- 3 a. Explain the concepts of Agonist & Antagonist in receptor in activation and inhibition. (10 Marks)
b. Define Drug Metabolism. Explain Phase I pathway of metabolism, with suitable example. (10 Marks)

OR

- 4 a. Describe the pharmacokinetic principle and parameters in design of Safer drug. (10 Marks)
b. Explain in detail on Glucuronidation conjugates, Acetylation, Methylation conjugates reaction with examples. (10 Marks)

Module-3

- 5 a. Summarize an Pharmacotherapy of Migraine in detail. (10 Marks)
b. Illustrate on classification of Analgesics and their mechanism of action. (10 Marks)

OR

- 6 a. What are Antacids? Explain the types of Antacids, with suitable example. (10 Marks)
b. Discuss on Pharmacotherapy of Diabetic Mellitus. (10 Marks)

Module-4

- 7 a. Discuss in detail on Preservation and Clinical use of Blood and Blood component. (10 Marks)
b. Explain on Clinical importance of Therapeutic Harmones. (10 Marks)

OR

- 8 a. Illustrate on Liposome Mediated drug delivery system. (10 Marks)
b. Summarize on Therapeutic use of Interferon. (10 Marks)

Module-5

- 9 a. Explain in detail on Preclinical development to support testing of new compounds in vitro and in vivo. (10 Marks)
b. Write a short note on : i) Placebo Response ii) Data Management. (10 Marks)

OR

- 10 a. Define Epidemiology. Explain types of Epidemiological studies and its advantages and disadvantages. (10 Marks)
b. Write short note on : i) Safety testing ii) Concept of Pharmacovigilance. (10 Marks)

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Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and/or equations written eg. 42+8 = 50, will be treated as malpractice.