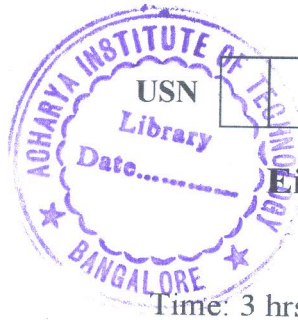


CBCS SCHEME



17BT81

Eighth Semester B.E. Degree Examination, July/August 2021 Clinical and Pharmaceutical Biotechnology

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions.

- 1 a. Discuss the various physiochemical considerations in the manufacture of current biotech products. (10 Marks)
b. What is granulation? Discuss any two methods involved in wet granulation. (10 Marks)
- 2 a. What are clinical trials? Elaborate the role of clinical trials in the drug development process. (10 Marks)
b. Write short notes on:
i) Ointments
ii) Glass as packing material. (10 Marks)
- 3 a. Describe the various aspects of receptor based approaches for disease target identification. (10 Marks)
b. Describe the pharmacokinetics of protein based drugs. (10 Marks)
- 4 a. Explain the various reactions involved in phase I metabolism of drugs. (10 Marks)
b. Write short notes on:
i) Drug antagonists
ii) CYP families. (10 Marks)
- 5 a. Discuss the classification of drugs based on therapeutic action. (10 Marks)
b. Write short notes on:
i) Laxatives
ii) Antacids. (10 Marks)
- 6 a. What is migraine? Discuss the pharmacotherapy of migraine. (10 Marks)
b. Give an account on hormone replacement therapy. (10 Marks)
- 7 a. Discuss enzymes therapeutic agents. (10 Marks)
b. Briefly explain the role of blood and its components in therapeutics. (10 Marks)
- 8 a. Give an account on the advanced drug delivery systems. (10 Marks)
b. Discuss the applications of stem cells in hepatic and pancreatic disorders. (10 Marks)
- 9 a. What is safety testing? Discuss the various aspects of safety testing. (10 Marks)
b. What is pharmacovigilance? Briefly explain the principles of pharmacovigilance. (10 Marks)
- 10 a. Give an account of data management in clinical research. (10 Marks)
b. Write short notes on:
i) Placebo response
ii) Cross-sectional study. (10 Marks)

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.