

Register Number:

M.TECH DEGREE EXAMINATIONS: NOV/DEC 2012

Third Semester

BIOTECHNOLOGY

BTY560: Pharmaceutical Biotechnology

Time: Three Hours

Maximum Marks: 100

Answer all the Questions:-

PART A (10 x 2 = 20 Marks)

1. Summarize the code of ethics for pharmacists
2. Mention few important historical milestones in the pharmaceutical industry
3. Differentiate between enteral and parenteral mode of drug administration
4. Write a note on Bioequivalence
5. Define suppositories with examples.
6. Name few preservatives used in Drugs.
7. Give few examples of Advanced drug delivery system
8. List the objectives of drug targeting
9. Give any four antibiotics
10. Define therapeutics class

PART B (5 x 16 = 80 Marks)

11. a) (i) List the CGMP requirements for manufacturing in pharmacies and write about current good compounding practice. (12)
(4)
- (ii) Write about the pharmaceutical industry.
- (OR)**
- b) (i) Describe how a drug is developed and approved. (8)
- (ii) Highlight the regulatory aspect of pharmaceutical industry. (8)
22. a) Explain with clear examples and possible diagrams, about pharmacokinetics of a drug.
- (OR)**
- b) What is pharmacodynamics? Explain the various aspects of it with necessary diagrams and examples.

23. a) (i) Why is a dosage form required? Write in detail about various criteria in pre-formulation studies. (12)
- (ii) With appropriate examples, list and explain the various factors which influence packaging and storing of drugs. (4)
- (OR)**
- b) What are solid dosage forms? With suitable examples describe any one solid dosage manufacturing process.
24. a) (i) Describe with good examples and suitable diagrams, advances in transdermal delivery drug systems. (12)
- (ii) Brief about controlled release of drugs. (4)
- (OR)**
- b) (i) Elaborate about Liposomal drug delivery system and its mechanism using suitable examples. (12)
- (ii) How is nanotechnology used in drug delivery? (4)
25. a) Describe in detail about antacids. (4)
- List and describe about drugs used in coughs and colds. (12)
- (OR)**
- b) (i) Describe about drugs used in peptic ulcers. (8)
- (ii) What are laxatives? Describe about them. (8)
