



**KUMARAGURU**  
college of technology  
character is life

Register Number:.....

**M.TECH DEGREE EXAMINATIONS: NOV/DEC 2014**

(Regulation 2013)

Third Semester

**BIOTECHNOLOGY**

P13BTE301: Pharmaceutical Biotechnology

**Time: Three Hours**

**Maximum Marks: 100**

**Answer all the Questions:-**

**PART A (10 x 2 = 20 Marks)**

1. Define Pharmacy.
2. List out the principles of drug development.
3. What is pharmacodynamics?
4. Bring out the factors that affect the ADME process.
5. What are the forms of liquid dosage in drug manufacturing process?
6. Name and brief on some of the drug storage methods.
7. How is transdermal playing a role in drug delivery system?
8. What is the significance of liposomes in drug targeting?
9. Define antacids.
10. What are analgesics?

**Answer any FIVE Questions:-**

**PART B (5 x 16 = 80 Marks)**

**Q.No:11 is Compulsory**

11. Analyze the various drug delivery systems and outline their advantages and disadvantages.
12. Explain the following aspects pertaining to pharmaceutical industry:
  - (i) Approval process (8)
  - (ii) Regulatory aspects (8)

13. Illustrate the mechanism of drug absorption, distribution and excretion with a suitable example.
14. Classify the following terms under the drug manufacturing:  
i) Liquid dosage forms (8)  
ii) Solid dosage forms (8)
15. Compare and contrast the transdermals and liposomes in drug delivery systems.
16. Organize the drugs used in a) Peptic ulcers  
b) Coughs and colds

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