

**M. TECH. DEGREE EXAMINATIONS: MAY 2009**

Third Semester

**BIOTECHNOLOGY**

P07BTE33 Pharmaceutical Biology

**Time: Three Hours****Maximum marks: 100****Answer ALL Questions:-****PART A (10 x 2 = 20 Marks)**

1. Define Sulfa Drugs with examples.
2. What is Insulin? How many types of Insulins are known?
3. Name any 4 companies manufacturing Biopharmaceuticals?
4. What are Vaccines? What is Hepatitis?
5. What is the role of laxatives in geriatric medicine?
6. What are the differences between Anti-analgesics and Anti-pyretics?
7. Describe the forms of solid drugs used with examples?
8. What are the preserving requirements for the Aerosols and Entricoated tablets?
9. Differentiate Purgatives and Digestives with examples.
10. Define Pharmaco-kinetics with suitable examples.

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

11. (a) (i) Define drug action and structure activity relationship with set of examples.  
(ii) Define ADME process. Give examples.

**(OR)**

- (b) (i) Define Bio-equivalence of a drug with suitable examples in antibiotics and Vaccines.  
(ii) Define GMP of drug manufacturing process along with Hormones and Vitamin manufacturing setup.

12. (a) (i) What are the regulatory aspects involved in the processing of manufacturing various forms of Antibiotics?

(ii) What is the present economic state of Antibiotic industry in the globe?

(OR)

(b) (i) List the examples of latest antibiotics in various forms with related to diseases.

(ii) Describe the various forms of Insulin's and their mode action.

13. (a) (i) Define dosage of a drug? What are the various regulations in dosage forms for Pediatric and Geriatric medicines?

(ii) What are the modes of drug delivering systems?

(OR)

(b) (i) Define suspension drugs and their application areas and diseases.

(ii) What are Topicals? Define with examples with various applications.

14. (a)(i) Define transdermal therapy and their areas of importance.

(ii) Elaborate the role of antibiotics in transdermal system.

(OR)

(b) (i) What are therapeutic hormones? What is their role in human system?

(ii) Describe the process of entericoating gastric ulcer curatives.

15. (a) Write and explain the growth of Bio-Pharmaceutical Industry in India Vis a Vis in the Globe.

(OR)

(b) Define the role of Bio-Pharmaceuticals in human applications with present context in the economic scenario.

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