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**B.E. / B.TECH. DEGREE EXAMINATIONS, DEC 2019**

Fifth Semester

**BT16006 – BIOPHARMACEUTICAL TECHNOLOGY***(Biotechnology)***(Regulation 2016)****Time: Three Hours****Maximum : 100 Marks**

Answer ALL questions

**PART A - (10 X 2 = 20 Marks)**

|   | CO | RBT |
|---|----|-----|
| 1. What is a spurious Drug?                               | 1  | U   |
| 2. What does pharmaco-economics deal with?                | 1  | U   |
| 3. Define pharmacokinetics.                               | 2  | R   |
| 4. Define Bioavailability of a drug.                      | 2  | R   |
| 5. What is synthetic reaction? Give an example.           | 3  | U   |
| 6. What are the adverse reactions of paracetamol?         | 3  | U   |
| 7. Define Elixirs.  | 4  | R   |
| 8. Give examples for preservatives.                       | 4  | U   |
| 9. List out the commercially available biologicals.       | 5  | AP  |
| 10. What are laxatives? Give examples for bulk laxatives. | 5  | U   |

**PART B - (5 X16 = 80 Marks)**

11. (a) What is a lead compound? How it is identified in drug development process? (16) 1 U

**(OR)**

- (b) (i) Discuss the regulatory aspects of a pharmaceutical industry. (8) 1 U  
 (ii) List out the important therapeutic categories with examples. (8) 1 AP

12. (a) Give account on mechanism of drug on human body. (16) 2 AP

**(OR)**

- (b) Describe the process of distribution and elimination of drugs from our body with neat sketch. (16) 2 U
13. (a) Explain in detail about the various types of reactions in bulk drug manufacture. (16) 3 U
- (OR)**
- (b) (i) Explain the special requirements for bulk drug manufacturing. (8) 3 AP  
(ii) Write down the flow chart of any bulk drug manufacturing. (8) 3 AN
14. (a) (i) Differentiate and explain the dry and wet granulation methods of tablet manufacturing. (8) 4 AP  
(ii) What is the significance of tablet coating? Describe the steps of sugar coating tablets. (8) 4 AN
- (OR)**
- (b) (i) Describe the manufacturing process of hard gelatin capsules with neat sketch. (8) 4 U  
(ii) Give detailed information about modern packing techniques for the pharmaceutical products. (8) 4 AP
15. (a) What are oral contraceptives? Write their mechanism of action with examples. (16) 5 U
- (OR)**
- (b) Classify analgesic drugs with examples & discuss pharmacological actions of any two. (16) 5 AP