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B.E. / B.TECH. DEGREE EXAMINATIONS, MAY 2023

Fifth Semester

BT16006 – BIOPHARMACEUTICAL TECHNOLOGY*(Biotechnology)***(Regulation 2016)****TIME: 3 HOURS****MAX. MARKS: 100****PART- A (10 x 2 = 20 Marks)**

(Answer all Questions)

1. Define pharmaceutical biotechnology.
2. What is FDA?
3. Define Bioavailability of a drug.
4. Write notes glomerular filtration rate.
5. How is radioactivity used in determination of pharmacokinetics of a drug?
6. What is synthetic reaction? Give an example.
7. What is direct compression? Write the significance of this method.
8. Define Elixirs.
9. Comment on Humectant.
10. Are antibiotics a suitable treatment for the common cold? Justify.

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

11. (a) What is a lead compound in drug design process? How it is identified as drug during drug development process? **(16)**

(OR)

- (b) Discuss the role of recombinant drugs in therapeutics. **(16)**

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

(OR)

- (b) Explain the factors that affect the rate of absorption of drugs. **(16)**

13. (a) Explain in detail about the various types of reactions in bulk drug manufacture. **(16)**

(OR)

(b) Explain the special requirements for bulk drug manufacturing. Write down the flow chart of penicillin manufacturing. **(16)**

14. (a) Differentiate and explain the dry and wet granulation methods of tablet manufacturing. **(16)**

(OR)

(b) Classify ointment bases and write the properties of each class. **(16)**

15. (a) Classify analgesic drugs with examples & discuss pharmacological actions of any two. **(16)**

(OR)

(b) What are oral contraceptives? Write their mechanism of action with examples. **(16)**
