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Question Paper Code: 99D03

B.E./B.Tech. DEGREE EXAMINATION, APRIL 2024

Professional Elective

Biotechnology

19UBT903 - BIOPHARMACEUTICAL TECHNOLOGY

(Regulations 2019)

Duration: Three hours

Maximum: 100 Marks

PART A - (10 x 2 = 20 Marks)

1. Define the term analgesics with examples CO1 U
2. List out various routes of drug administration CO1 U
3. Write some examples for non-selective binding of drugs CO1 U
4. Why Intravenous form of drug administration has more bioavailability than other forms? Justify your answer CO2Ap
5. Write a short note GMP CO1 U
6. Write a short note on electrostatic coating CO1 U
7. Enlist different strategies in drug targeting CO1 U
8. What is the need for target drug delivery system CO1 U
9. Mention the types of analgesics with examples CO1 U
10. Differentiate broad spectrum and narrow spectrum antibiotics CO1 U

PART – B (5 x 16= 80Marks)

11. (a) Explain in detail the regulatory bodies and its regulations on drug discovery and production CO1 U (16)
- Or
- (b) Write a detailed note on various routes of drug administrations CO1 U (16)
12. (a) Explain in detail how does the system react with the drug to absorb,distribute, metabolize and eliminate it CO2 App (16)
- Or
- (b) Sujitha had headache and she took paracetamol an analgesic as medication. Now explain me how does the drug move through the system with all its dynamic parameters CO2 Ana (16)
13. (a) Explain in detail about liquid dosage forms and topical applications CO2 App (16)
- Or
- (b) Explain in detail preservation of drugs CO2 App (16)
14. (a) Explain target directed delivery system in detail CO1 U (16)
- Or
- (b) Write a detailed note on role of nanotechnology in drug delivery systems CO1 U (16)
15. (a) How does monoclonal antibodies are used against cancer cell? Explain in detail the technology behind developing it CO5 U (16)
- Or
- (b) Write a detailed note mechanism of action and production of β -lactum antibiotics CO5 U (16)