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Reg. No.:						

Question Paper Code: 2145349

B.E. / B.Tech. DEGREE EXAMINATIONS, NOV/ DEC 2024 Fifth Semester

Time:	(Regulation 2020) Three Hours	Maximum: 100 Marks
	Answer ALL questions	
	PART – A	$(10 \times 2 = 20 \text{ Marks})$
1.	Define pharmacokinetics.	
2.	What is bio - availability?	
3.	Define renal clearance.	
4.	What are the factors affecting renal excretion of drugs?	
5.	What are the advantages and disadvantages of using halo	othane as an anesthetic?
6.	Name 4 drugs used in anti-inflammatory action.	
7.	Differentiate pharmacokinetic and pharmacodynamics.	
8.	What is the objective of pharmacokinetic models?	
9.	List out the barriers of protein drug delivery.	

What is the typical shelf life of protein-based drugs, and what factors can affect

10.

their stability over time?

11. (a)	Elaborate about routes of drug administration in detail.	(16)
	(OR)	
(b)	Discuss in detail about pharmacokinetics.	(16)
12. (a)	Describe the Phase I and Phase II biotransformation.	(16)
	(OR)	
(b)	Illustrate renal and non - renal routes of drug excretion.	(16)
13. (a)	Discuss in detail about mechanism of action of antidepressant drugs example.	with (16)
	(OR)	
(b)	Demonstrate the mechanism of action of CNS stimulants.	(16)
14. (a)	Determine the pharmacokinetic and pharmacodynamics process of protein dra	ugs. (16)
	(OR)	
(b)	Compare and elaborate the various routes of drug administration of convent and biotechnology drugs.	ional (16)
15. (a)	Explain the most effective strategies for enhancing the absorption of protein d and how do these methods improve their bioavailability?	rugs, (16)
	(OR)	
(b)	Elaborate controlled and site-specific delivery of protein drug in detail.	(16)

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