18BT72

Seventh Semester B.E. Degree Examination, Dec.2024/Jan.2025 **Clinical and Pharmaceutical Biotechnology**

ime: 3 hrs.

BANGA

Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.

2. Any revealing of identification, appeal to evaluator and /or equations written eg. 42+8 = 50, will be treated as malpractice.

Max. Marks: 100

	N	ote: Answer any FIVE full questions, choosing ONE full question from each mo	dule.			
		Module-1				
1	a.	What is Drug design? Discuss the basic concepts and applications in drug designing.				
			(10 Marks)			
	b.	What are the physiochemical considerations in manufacturing herbal medicines?				
			(10 Marks)			
		OR				
2	a.	Explain in detail about concept and testing of preformulation and formulation d	evelopment			
		considerations.	(10 Marks)			
	b.	What are the analytical methods and tests for used for various drugs?	(10 Marks)			
		Module-2				
3	a.	Elaborate pharmacodynamics and pharmacokinetics of protein based drugs.	(10 Marks)			
	b.	Explain the following:	(10.34 1.3			
		i) Disease Target identification ii) Enzyme inhibitors.	(10 Marks)			
		OR				
4	a.	What are the need of pharmacokinetic study? Explain pharmacokinetics parameter	ers.			
			(10 Marks)			
	b.	Elaborate evolution of drug metabolism phase – I metabolism and metabolism ph				
			(10 Marks)			
		Module-3				
5	a.	Explain the classification of drugs based on therapeutic actions.	(10 Marks)			
	b.	Write a note on:	(201120)			
		i) Contraceptives ii) Laxatives.	(10 Marks)			
		OR				
6	a.	Explain Pharmacotherapy of migrane, cancer and diabetes.	(10 Marks)			
	b.	Explain the following:	/#0.5F T. V			
		i) Hormone replacement therapy ii) Herbal health products.	(10 Marks)			
		Module-4				
7	a.	Explain in detail about clinical importance of therapeutic proteins and enzymes.	(10 Marks)			
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Elaborate the hormones and growth factors used as therapeutics. (10 Marks)

OR

- What are Interferons? Explain preservation and clinical use of blood and blood components. 8 a. (10 Marks)
 - Discuss advanced drug delivery systems in detail. (10 Marks)

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9	a.	Discuss Pre – chinical development to support testing in humans.	(10 Marks)
	b.	Explain the following:	
		i) Relationship between animal and human pharmacology.	(05 Marks)
		ii) Concepts of pharmacovigilance.	(05 Marks)
		OR	
10	a.	Explain the following:	

	OR	
a.	Explain the following:	
	i) Clinical Trials – informed consent ii) Placebo responses.	(10 Marks)
b.	Write a note on:	
	i) Clinical Research Data Management.	(05 Marks)
	ii) Clinical Research from Pharmaceutical Industry.	(05 Marks)
