THISTITUTE OF THE	CBCS	SCHEME
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15BT81

(08 Marks)

Eighth Semester B.E. Degree Examination, July/August 2021
Clinical and Pharmaceutical Biotechnology

Time: 3 hrs.

NGALORE

Max. Marks: 80

		Note: Answer any FIVE full questions.		
1	a.	3		
	b.	"Finding a lead is the most critical aspect of drug discovery". Substantiate.	(08 Marks) (08 Marks)	
	υ.	I maing a lead is the most effical aspect of drug discovery. Substantiate.	(00 Marks)	
2	a.	Distinguish between the processes of wet and dry granulation.	(08 Marks)	
	b.	Distinguish between Elixirs, syrups and solutions.	(08 Marks)	
3	a.	How does phase 1 drug metabolism differ from phase 2 drug metabolism?	(08 Marks)	
	b.	Differentiate between Agonists and Antagonists citing suitable examples.	(08 Marks)	
4				
4	a.	Define pharmacokinetic. Explain drug elimination in detail.	(08 Marks)	
	b.	Differentiate between LD_{50} , ED_{50} and TD_{50} and graphically plot the curves. formula for therapeutic index.		
		formula for therapeutic index.	(08 Marks)	
5	a.	Differentiate between Biguanides and sulfonylureas with respect to their mode of action.		
			(08 Marks)	
	b.	Distinguish between the 4 phases of migraine. Add a note on the therapy.	(08 Marks)	
6	a.			
	b.	properties. What are the different treatment regimen for Alzheimer's disease?	(08 Marks)	
	U.	what are the different treatment regimen for Alzhenner's disease?	(08 Marks)	
7	a.	With respect to stem cells, differentiate between the following terms:		
		i) Adult and Embryonic stem cells.		
		ii) Totipotent, multipotent and pluripotent.	(08 Marks)	
	b.	Give an account of liposomes and nanoparticle based drug delivery systems.	(08 Marks)	
8	a.	Differentiate between factors VIII a and factor VIII concentrates.	(08 Marks)	
	b.	Explain the application of epidermal stem cells in skin replacement.	(08 Marks)	
9	0	Give an account of the ethics pertaining to clinical research.	(00 M - 1 -)	
J	a. b.	What are the 3 critical assumptions of case control studies?	(08 Marks) (08 Marks)	
	U.	That are the 5 efficient assumptions of ease control studies:	(00 Mains)	
10	a.	Give an account of placebo trials and placebo responses.	(08 Marks)	
	b.	"Participant's rights are protected by the Institutional Review Board". Substantiat		