Librarian	1
Learning Resour	ce Centre
Acharya Inst	itutes



USN										
-----	--	--	--	--	--	--	--	--	--	--

18BT72

Seventh Semester B.E. Degree Examination, July/August 2022 Clinical and Pharmaceutical Biotechnology

Time: 3 hrs. Max. Marks: 100

	N	ote: Answer any FIVE full questions, choosing ONE full question from each m	odule.
		Module-1	
1	a.	Discuss the development of Pharmaceutical Industry.	(10 Marks)
	b.	Explain various Physio – chemical considerations in manufacturing of drugs.	(10 Marks)
			,
		OR	
2	a.	Define Granulation. Explain types of granulation.	(08 Marks)
	b.	Describe the purpose and different types of packaging techniques in Pharma Indu	
	٠.	2 section the purpose and amorem types of puckaging teeninques in I harma made	(08 Marks)
	C.	Write short notes on Herbal extracts.	(04 Marks)
			(
		Module-2	
3	a.	Explain Pharmacokinetics of protein based drugs.	(10 Marks)
	b.	Explain in detail phase I metabolism.	(10 Marks)
			(
		OR	
4	a.	Describe Pharmacodynamic parameters of drugs.	(10 Marks)
	b.	Mention all the conjugation reaction during phase II metabolism and explain any	
		and the conjugation and an ing phase in metaconom and capital and	(10 Marks)
			(=======)
		Module-3	
5	a.	Write a detailed note on the classification of drugs based on therapeutic a	actions with
		examples.	(10 Marks)
	b.	Write short notes on:	,
		i) Antibiotics ii) Non – Steroidal contraceptives.	(10 Marks)
			(=======)
		OR	
6	a.	Explain the Pharmao therapy of migraine.	(10 Marks)
		Write short notes on:	(10111111)
		i) Vitamins ii) Harmone Replacement therapy.	(10 Marks)
		, and the state of	(201.401410)

Module-4

1	a.	With suitable	examples,	explain	how	hormones	and	growth	tactors	can	be	used	as
	Therapeutics.										(1	0 Mar	ks)
	h	Evnlain Linosco					(1	0 Mar	lze)				

b. Explain Liposome – based drug delivery system.

8 a. Write a note on various blood components and their preservation. Add a note on Safety guidelines for whole blood transfusion. (10 Marks)
b. Explain Nano particles – based drug delivery system. (10 Marks)

Module-5

- 9 a. What is Epidemiology Study design? Explain in detail about type of Epidemiology study design. (10 Marks)
 - b. Give the importance of informed consent for Clinical trials.

(10 Marks)

OR

10 a. Explain various toxicity studies to evaluate safety of drugs.

(10 Marks)

- b. Write short notes on:
 - i) Placebo Responses
- ii) Clinical Research Institutes.

(10 Marks)