Question Paper Code: UC104

$B.E./B.Tech.\ DEGREE\ EXAMINATION,\ APRIL\ /MAY\ \ 2025$

Professional Elective

Biotechnology

21BTV104 – BIOPHARMACEUTICAL TECHNOLOGY

(Regulations 2021)

	(Regulations 2021)		
Duration: Three hours Maximum		ximum: 1	100 Marks
Answer ALL Questions			
	PART A - $(10 \times 2 = 20 \text{ Marks})$		
1.	What do you mean by Pharmacoeconomics?		CO1- U
2.	Write a note on the term "drug".		CO1- U
3.	Define Pharmacokinetics		CO1- U
4.	Cancer screening is looking for cancer before a person has any symptoms. So tests can help find cancer at an early stage, before symptoms appear. Interpret and non-random screening.	_	CO2-App
5.	Give two examples for eye lotion with their composition		CO1- U
6.	Classify emulsions and its types		CO1- U
7.	What are the approaches designed to controlled drug delivery formulation?		CO1- U
8.	Interpret hydrogels in ophthalmic drug delivery systems		CO2-App
9.	Mention the common side effects in Streptomycin.		CO1- U
10.	How could you infer the actions of thyroid stimulating hormone?		CO2-App
	PART – B (5 x 16= 80 Marks)		
11.	(a) Discuss in detail about the Drug discovery and its developmental stages Or	CO1- U	J (16)
	(b) Classify the various routes of Drug administration.	CO1- U	J (16)
12.	(a) Discuss in detail about the four stages of pharmacokinetics. Or	CO1- U	J (16)

CO1-U

(16)

(b) What is ADME and how does it fit in drug development process?

13. (a) For people who have trouble swallowing, oral liquid dose forms are CO2- App (16)preferable than pills or other solid medications, Interpret the statement. Or The preservation of drugs is essential to keep their properties CO2- App (b) (16)unchanged. Illustrate all about the materials for their preservation and packaging. 14. (a) Illustrate the barriers involved in Drug Delivery Systems. CO3- App (16)(b) Detail a case study to stimulate discussion around how the core CO₃- App (16)principles contained could be applied to product realization programs for a biotechnology-derived monoclonal antibody. Explain SAR, uses & MOA of Griseofulvin, Nystatin, Amphotericin – CO1- U 15. (a) (16)analgesics – laxatives (b) Discuss in detail about hormones and corticosteroids CO1- U (16)