Exam Date & Time: 29-Mar-2021 (01:30 PM - 04:30 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

Manipal Academy of Higher Education, Manipal MPharm Theory End-Semester Examinations.

Novel Drug Delivery Systems [PCE-MIP103T - S2]

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	Marks: 75	Duration: 180	mins.	
	SECTION - A			
	Answer all th	ne questions.		
Answer the following (10 marks $x = 50$ marks)				
	1)	Explain the effect of polymer diffusivity and polymer solubility on controlled release drug delivery.	(10)	
	2)	What is the criteria for the selection of drugs for colon specific drug delivery systems? Explain any TWO approaches of colon specific delivery systems.	(10)	
	3)	Explain iontophoresis and sonophoresis techniques with the help of a diagram.	(10)	
	4)	Elucidate the methods for drugs loading in resealed erythrocytes.	(10)	
	5)	Describe in detail different types of oral controlled release drug delivery systems.	(10)	
SECTION - B				
Answer all the questions.				
Answer the following (5 marks $x = 25$ marks)				
	6)	Write a short note on biodegradable polymers with its mechanism of degradation and suitable examples.	(5)	
)	7)	Enlist major classes of nanocosmeceuticals and explain any TWO.	(5)	
	8)	What are monoclonal antibodies. Give their production procedure.	(5)	
	9) .	Explain any TWO chemical degradation pathways involved in protein and peptide drug delivery systems. Discuss their preventive measure also.	(5)	
	10)	Explain any THREE customized dosage forms and explain its applications in personalized medicine.	(5)	
	End			