Exam Date & Time: 07-Sep-2021 (02:00 PM - 05:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

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

	Marks: 75	Duration: 180	mins.	
	SECTION - A			
	Answer all the questions.			
	Answer the	following (10 marks $x = 50$ marks)		
	1)	Discuss the various approaches for brain targeting	(10)	
	2)	Write about the use of nanotechnology in formulation of cosmeceuticals and nutraceuticals with examples	(10)	
	3)	Discuss the preparation of nanofibers, cochleates, nanocrystals and carbon nanotubes	(10)	
	4)	Explain any two preparation methods of (i) Liposomes (II) Dendrimers	(10)	
	5)	Write about the vectors used in gene therapy. Write a brief note on biosimilars	(10)	
		SECTION - B		
	Answer all the questions.			
	Answer the fo	ollowing (5 marks x $5 = 25$ marks)		
	6)	Briefly explain evaluation of intra-nasal drug delivery systems	(5)	
	7)	Write a note on dry powder inhalers	(5)	
	8)	Describe the components of a metered dose inhaler	(5)	
	9)	Discuss the evaluation tests for nanoparticles	(5)	
	10)	Discuss liposome based gene delivery systems	(5)	
	End	,a u		

1 of 1