Enrolment No. _____

PARUL UNIVERSITY FACULY OF PHARMACY

M.Pharm., Summer 2017-18 Examinations

Mi.Pharm., Summer 2017-18 Examinations			
Semester: 2		Date: 14/05/2018	
Subject Code: MPH201T		Time: 10:00 am to 1:00 pm	
	et Name: Molecular Pharmaceutics (Nano Tech and Targeted DDS)	Total Marks: 75	
Instructions: 1. Figures to the right indicate maximum marks.			
2. Make suitable assumptions wherever necessary.			
2. WIAN	e sunable assumptions wherever necessary.		
Q.1	Essay Type Questions. (any 2 out of 3) (15 Marks Each)		(30)
1.	What is targeted drug delivery system? Describe the different approaches of Drug targeting in		
	detail.		
2.	2. Define liposome. Give classification of liposome. Write down solvent injection and thin film		
	hydration method in detail.		
3.	What is Gene Therapy? Describe detail approaches of gene therapy.		
Q.2	Short Essay Type Questions. (any 5 out of 6) (5 Marks Each)		(25)
1.	Describe in detail about Tumor targeted drug delivery systems.		
2.	Write a short note on Dry Powder Inhaler (DPI).		
3.	Describe different strategies to enhance nasal drug absorption.		
4.	Describe the Monoclonal Antibodies production in detail.		
5.	Enlist various method of microencapsulation and explain any one in detail.		
6.	What are nanoparticles? Enlist the different methods for preparation of	of nanoparticles. Describe	
	polymerization method in detail.		
Q.3	Short Answers. (2 Marks Each)		(20)
1.	Write a brief note on Aquasomes.		
2.	Explain brief about different Challenges In Pulmonary Drug Delivery Sy	vstems.	
3.	Write down advantages and limitation of Intranasal Drug Delivery Syste	ms.	
4.	Define Somatic and Germline Gene Therapy.		
5.	Explain briefly about target cells of Gene therapy.		
6.	Write down the principle of Air suspension technique.		
7.	Enumerate different approaches for CNS targeting.		

- 8. Give composition of Niosomes.
- 9. What is Metered Dose Inhaler (MDI)?
- 10. Give brief application of biodegradable polymers in microencapsulation.