Seat No.:	Enrolment No.

Subject Code: Physical Pharmaceutics II

Subject Name: BP403TP

GUJARAT TECHNOLOGICAL UNIVERSITY

B.Pharm - SEMESTER- IV • EXAMINATION -Summer -2021

Time:10:30am to 01:30pm Instructions:		•	Total Marks: 80	
1. 2. 3.	Mak	mpt any five questions. The suitable assumptions wherever necessary. There so the right indicate full marks.		
Q.1	(a) (b)	Discuss features and properties of different types of colloidal dispersion. What are association colloids? Mention the mechanism of formation of micelles.	06 05	
	(c)	Explain Protective colloids.	05	
Q.2	(a) (b) (c)	Define Rheology; Give the application of rheology in pharmacy. Explain the Plastic and Pseudoplastic flow curves with examples. Classify various viscometers. Describe a viscometer to find out viscosity of Non-Newtonian fluids with labeled diagram.	06 05 05	
Q.3	(a) (b) (c)	Differentiate hydrophilic and lipophilic colloids. Describe thixotrophy and negative thixotrophy. How to evaluate the thixotrophy. Give a short note on rotational viscometers.	06 05 05	
Q.4	(a) (b) (c)	Write a note on physical stability of emulsion. Give a short note multiple emulsions. Write a brief note on electric properties of interfaces.	06 05 05	
(1	(a)	Enlist the methods for particle size determination. Explain conductivity Method.	06	
	(b) (c)	Discuss the derived properties of powder. Explain methods for determining surface area.	05 05	
Q. 6	(a)	What is meant by controlled flocculation? Discuss the various means by Which controlled flocculation can be achieved?	06	
	(b) (c)	Give the difference between flocculated and deflocculated suspensions. Define Drug Stability and give its importance in Pharmaceutical field.	05 05	
Q.7	(a) (b) (c)	Enumerate types of chemical degradation and explain Hydrolysis in detail. Give a short note on Accelerated stability testing. Explain Photolytic degradation and its prevention	06 05 05	

Date:05/08/2021