GUJARAT TECHNOLOGICAL UNIVERSITY B.PHARM - SEMESTER- 3 EXAMINATION – WINTER -2019

Subject Code: BP302TPDate: 16-11Subject Name: Physical Pharmaceutics ITotal MarkTime: 10:30AM TO 01:30PMTotal MarkInstructions:Total Mark			6-11-2019		
			arks: 80		
	Mak	empt any five questions. ke suitable assumptions wherever necessary. ares to the right indicate full marks.			
Q.1	(a)	Define solubility. Explain the factors affecting on solubility of drug we suitable example.	ith	06	
	(b) (c)	Discuss in detail Raoult's low and its deviations. Write a note on distribution law with its limitations and applications.		05 05	
Q.2	(a) (b) (c)	Explain in brief (1) Eutectic mixture (2) Sublimation. Write a note on liquid crystals. Define refractive index. Explain the method used to determine refracti		06 05 05	
Q.3	(a)	Enlist the methods used to measure the surface and interfacial tensions any one in detail.	s. Explain	06	
	(b) (c)	Write a note on HLB scale. Explain in detail about surface active agents.		05 05	
Q.4	(a) (b) (c)	Define and classify the complexation. Write in detail about "chelates" Describe the applications of complexation in field of pharmacy. Write a note on Protein drug binding kinetics.		06 05 05	
Q.5	(a) (b) (c)	Enlist the methods used to determine the pH. Discuss any one in detail. Discus in detail about Sorensen's pH scale. Write a short note on "Buffer Equation"		06 05 05	
Q. 6	(a)	What is White – Vincent method of making isotonic solution? Discus suitable example.	s with	06	
	(b) (c)	Discuss in detail about Aerosols. Give a note on spreading coefficient		05 05	
Q.7	(a) (b) (c)	Classify the crystals. Discuss about crystal habit. Explain in detail freundlich adsorption isotherm. Discuss in brief about buffer capacity.		06 05 05	
