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Seat N	o.:	Enrolment No.		
	GUJARAT TECHNOLOGICAL UNIVERSITY B.PHARM - SEMESTER- 3 EXAMINATION – WINTER -2019			
Subject Code: BP302TP Date: 16-11-20 Subject Name: Physical Pharmaceutics I			9	
Time Instru 1. 2.	e: 10 ctions Atte Mal	:30AM TO 01:30PM Total Marks: 80)	
Q.1	(a)	Define solubility. Explain the factors affecting on solubility of drug with suitable example.	0	
	(b)	Discuss in detail Raoult's low and its deviations.	0	
	(c)	Write a note on distribution law with its limitations and applications.	0	
Q.2	(a)	Explain in brief (1) Eutectic mixture (2) Sublimation.	0	
	(b)	Write a note on liquid crystals.	0	
	(c)	Define refractive index. Explain the method used to determine refractive index.	0	
Q.3	(a)	Enlist the methods used to measure the surface and interfacial tensions. Explain any one in detail.	0	
	(b)	Write a note on HLB scale.	0	
	(c)	Explain in detail about surface active agents.	0	
Q.4	(a)	Define and classify the complexation. Write in detail about "chelates"	0	
	(b)	Describe the applications of complexation in field of pharmacy.	0	
	(c)	Write a note on Protein drug binding kinetics.	0	
Q.5	(a)	Enlist the methods used to determine the pH. Discuss any one in detail.	0	
	(b)	Discus in detail about Sorensen's pH scale.	0	
	(c)	Write a short note on "Buffer Equation"	0	
Q. 6	(a)	What is White – Vincent method of making isotonic solution? Discuss with suitable example.	0	
	(b)	Discuss in detail about Aerosols.	0	
	(c)	Give a note on spreading coefficient	0	
Q.7	(a)	Classify the crystals. Discuss about crystal habit.	0	
	(b)	Explain in detail freundlich adsorption isotherm.	0	
	(c)	Discuss in brief about buffer capacity.	0	
