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2 nd Semester Regular / Back Examination 2018-19 ADVANCED PHYSICAL PHARMACEUTICS BRANCH: PHARMACEUTICS Time: 3 Hours Max Marks: 70 Q.CODE: F276 Answer Question No.1 which is compulsory and any FIVE from the rest. The figures in the right hand margin indicate marks.														
Q1	a) b) c) d) e) f)	 Write the two techniques used to determine the polymorphism by crystalline solids? Define in vitro sink condition and name the methods for its maintenance? What are micelles and write its cardinal application? Explain dissolution and mention the important theories of dissolution? Show the relationship between half-life and shelf-life in case of first order kinetics? 										· F	(10)	
	h) i) j)	What are the chemical read State Fick's fi Write the two	ction? rst law of	diffusi	on?								a	
Q2	a) b)	Write about m Explain about								ability	?			5) 5)
Q3	a)	Discuss abou	t cosolve	nt one	impor	tant t	echni	ques	for in	nprov	ing so	olubility o	f (5)

Write a short note on types of polymer? Write a note on *in-vitro - in-vivo* correlations?

Explain the rate equation for first order kinetics?

a)

b)

c)