Bachelor of Pharmacy (B.Pharm) Fourth Semester BP401 - Physical Pharmacy-II

P. Pages: 1

Time : Three Hours

GUG/W/18/1164

Max. Marks: 80

	Notes		All questions carry equal marks.	
		2. 3.	Question No.1 is compulsory. Diagrams and Chemical equation should be given wherever necessary.	
		<i>4</i> .	Solve any four from remaining.	
1.		Solve any four from following.a) Distinguish between w/o and o/w type of emulsion?		16
	1	b) E	xplain why interfacial tension is less than surface tension.	
	(c) E	xplain in short electrical properties of colloids.	
	(d) V	Vrite about concept of half life in a first order.	
	(e) V	What are ideal and real solution.	
2.		Define surface and interfacial tensions. Discuss various techniques of measurement of surface and interfacial tension.		16
3.		State various factors which influence a rate of reaction and elaborate accelerated stability techniques.		16
4.	a) l	Explain theories of emulsification.		8
	b) '	What are colloids? Explain in short protective collide.		8
5.	a) l	Derive Scatchard – Hildebrand equation. 8		
	b) 1	Explain in short various types of adsorption isotherms. 8		
6.		What do you mean by cracking of emulsion? State various reasons for cracking of8emulsion.		
	b)]	Describe in brief about wetting and detergency phenomenon.		8
7.			a short notes on any four. preading coefficient.	16
	1	b) D	DLVO theory.	
	(c) S	tability of emulsion.	
	(d) D	Differentiate between polar and non polar solvents.	
	(e) P	hase rule and phase equilibria.	
	1	f) E	mulsifying agent.	
