



II B. Pharmacy I Semester Supplementary Examinations, May - 2019 PHYSICAL PHARMACY-II

Time: 3 hours

Max. Marks: 70

Note: 1. Question paper consists of two parts (**Part-A** and **Part-B**) 2. Answering the question in **Part-A** is Compulsory

3. Answer any **THREE** Questions from **Part-B**

PART -A

		PART -B	
	f)	Describe any two methods to prepare lyophobic colloids.	(4M)
	e)	Write a note on non Newtonian fluids.	(3M)
	d)	Define the terms surface tension, HLB, micellar solubilization	(3M)
	c)	Describe angle of repose method to determine flow property of powder.	(4M)
	b)	Explain hydrolytic degradation of compounds and preventive measures.	(4M)
1.	a)	State and explain Ficks first law.	(4M)

2. Describe the factors influencing solubility of liquids in liquids. (8M) a) Explain the mechanism of distribution of solutes in immiscible solvents. b) (8M) Derive an equation for first order rate constant and half life. 3. a) (8M) b) Write a note on accelerated stability studies. (8M) Describe any one method to determine surface tension of solution. 4. (8M) a) b) Write a note surface free energy of liquid interfaces. (8M) Explain one method to determine surface area of powders. 5. a) (8M) Write a note on derived properties of powders. b) (8M) 6. Define viscosity and explain the factors influencing viscosity of system. a) (8M) Describe the method to measure thixotropic coefficient. b) (8M) 7. a) Define miscellar solubilization and describe the factors influencing miscellar (8M) solubilization. Explain any two optical properties of colloids. (8M) b)

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