R16

Code No: PHR16213

SET - 1

II B. Pharmacy I Semester Supplementary Examinations, Oct/Nov - 2020 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 **FOUR** Questions from **Part-B**

PART -A

1.	a)	Give four applications of HLB scale.	(2M)
	b)	Note on pseudo zero order reaction with an example.	(2M)
	c)	Define Thixotropy & Dilatant flow.	(2M)
	d)	What is phase inversion and how it can be obtained?	(2M)
	e)	What are the applications of bulk density in pharmaceutical industry?	(2M)
	f)	Define zeta potential? How it is different from Nernest potential?	(2M)
	g)	Define Seive diameter & Volume diameter. PART -B	(2M)
2.	a)	Compare & contrast different type's colloidal systems.	(7M)
	b)	Briefly explain Donan membrane equilibrium.	(7M)
3.	a)	Describe the methods for determination of energy of activation.	(7M)
	b)	Discuss about method for shelf life determination by accelerated stability studies.	(7M)
4.	a)	Describe different graphic representations of size distribution data in a powder.	(10M)
	b)	Write a note on solid state degradation kinetics.	(4M)
5.	a)	Discuss the method for determination of viscosity by Ostwald's viscometer and its practical considerations.	(10M)
	b)	Write a note on Newtonian systems.	(4M)
6.	a)	Write about protective colloidal action of hydrophilic colloids.	(7M)
	b)	Discuss about Sedimentation method for particle size determination in suspension.	(7M)
7.		Explain in detail about adsorption isotherms of solid surface adsorption.	(14M)