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## Subject Code: B132103/R13 II B. Pharmacy I Semester Regular Examinations Dec/Jan. – 2014-15 PHYSICAL PHARMACY-II

Time: 3 hours

Max. Marks: 70

Question Paper Consists of **Part-A** and **Part-B** Answering the question in **Part-A** is Compulsory, Three Questions should be answered from **Part-B** \*\*\*\*\*

## PART-A

- 1. (i) Define and differentiate diffusion and osmosis
  - (ii) Define rate and order of the reaction with simple examples
  - (iii) Define and differentiate surface tension and interfacial tension?
  - (iv) Why do we need to reduce the particle size of a drug and what are the advantages associated with it?
  - (v) What is the main difference between Newtonian and non-Newtonian systems
  - (vi) Define dispersion, dispersed phase and dispersion medium with a suitable examples

[4+4+4+3+3]

## PART-B

2.	(a) Define solubility and classify solubility according to I.P.	
	(b) Discuss in detail about factors influencing the solubility of solids in liquid	
		[6+10]
3.	Write a note on decomposition pathways of medicinal agents and strategies adopted fo	r
	their stabilization in the pharmaceutical formulations.	
		[16]
4.	Describe the concept of HLB system along with its applications and limitations	
		[16]
5.	What are derived properties of powders and how they are useful in the design and	
	development of various pharmaceutical formulations?	
		[16]
6.	What is thixotropy and mention its applications in the design of pharmaceutical	
	formulations?	
		[16]
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7.	Write in detail about stability of colloids?	
		[16]

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