Subject Code: B13202/R13

I B. Pharmacy II Semester Supplementary Examinations Feb. - 2015 PHYSICAL PHARMACY-I

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. (a) Write about mesophase.
 - (b) What is thermochemistry?
 - (c) Briefly explain dipole moment.
 - (d) What is mole percent?
 - (e) Define and explain reference state.
 - (f) Discuss briefly the preparation of pharmaceutical buffer solutions.

[4+4+4+3+3+4]

PART -B

2.	Define and explain phase rule for one component systems and eutectic mixtures.	
		[16]
3.	State and explain the first and second law of thermodynamics.	
		[16]
4.	Explain in detail dielectric constant induced polarization and dipole moment.	[17]
5	(a) De view De verlage lange en la lieuwer ite lieuwite tie en	[16]
э.	(a) Derive Raoult's law and discuss its limitations.(b) Explain in detail is existing worth address.	
	(b) Explain in detail isopiestic method.	[10.7]
([10+6]
6.	Discuss in detail the van't Hoff theory of solutions.	[17]
7	(a) White in datail haffen action marked in the	[16]
7.	 (a) Write in detail buffer action mechanisms. (b) Device and exclusion buffer acception 	
	(b) Derive and explain buffer equation.	10.01
		[8+8]

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