

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. [16]
5. (a) Derive Raoult's law and discuss its limitations.
- (b) Explain in detail isopiestic method. [10+6]
6. Discuss in detail the van't Hoff theory of solutions. [16]
7. (a) Write in detail buffer action mechanisms.
- (b) Derive and explain buffer equation. [8+8]



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