## [2]

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B. Pharm. (Second Semester) EXAMINATION, June, 2011

(Grading/Non Grading)

PHARMACEUTICS-II

(Physical Pharmacy)

(PY - 202)

Time: Three Hours

Maximum Marks: 70

**Note:** Attempt any *five* questions. All questions carry equal marks. It is required to solve subparts of a question in continuation.

- (a) What is Micromeritics? How particle size is determined? Explain any one method in detail.
  - (b) What do you understand by derived properties of powders? Discuss the factors affecting flow properties of powders.
- 2 (a) Using proper illustration, discuss phase rule.
  - (b) Discuss factors affecting solubility of liquid in liquid.
- 3 (a) What is surface free energy? Describe the methods of detecting surface tension.
  - (b) What is HLB? Describe the HLB scale for surface active agents.

+.	(a)	write a note on Fick's laws of diffusion.	7
	(b)	What is Thixotropy? How is it measured?	7
	(a)	How does rheology differ from viscosity? of pharmaceutical application of Rheology.	Give 7
	(b)	Explain the term "Buffer capacity". How i calculated?	s it
ô.	( <u>a</u> )	Discuss various approaches to adjustment of toxi Give its pharmaceutical applications.	city.
	(b)	Write a note on ultrafiltration and dialysis.	7
7.		te short notes on any <i>two</i> of the following: 7 c	each

- (b) Electrokinetic properties of colloids
- (c) Optical properties of colloids
- 8. Discuss theories of emulsification. Discuss physical stability of suspensions and emulsions.

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