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Roll No

BP-302 T (CBGS)**B.Pharm., III Semester (PCI Scheme)**

Examination, December 2017

Choice Based Grading System (CBGS)**Physical Pharmaceutics-I***Time : Three Hours**Maximum Marks : 75*

- Note:* i) Attempt any five questions.
ii) All questions carry equal marks.

1. Explain surface free energy. How surface and interfacial tension will be measured?
2. What is HLB? Describe the HLB scale for surface active agents.
3. Describe ideal solutions and phase diagram. Give detail account on influence of hydrotropic agents on solubility of drug.
4. What do you mean by common ion effect? Describe the buffer equation and buffer capacity.
5. Discuss factors affecting complexation and protein binding. Give classification of complexes.

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6. What are buffered isotonic solutions? Discuss buffers in pharmaceutical and biological systems.
7. Give a detailed account on various physicochemical properties of drug molecule.
8. Write short notes on any three of the following:
 - a) Protein binding
 - b) Applications of buffers
 - c) Eutectic mixtures
 - d) Factors influencing solubility of drugs

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