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Roll No

PY-111

B.Pharm., I Semester (Old Scheme)

Examination, December 2016

Choice Based Credit System (CBCS) Physical Pharmacy - I

Time: Three Hours

Maximum Marks: 60

Note: i) Attempt any five questions.

- All questions carry equal marks.
- Define the following terms:
 Crystalline state, amorphous solids, polymorphism
 - Explain ideal gas law and kinetic molecular theory.
- What is phase equilibria? Discuss phase rule citing an example of two component systems.
- 3. a) How physical properties of a solution can be classified?
 - Discuss various colligative properties with special reference to elevation of boiling point.
- 4. a) Describe common ion effect with suitable examples.
 - b) How buffer capacity is calculated?
- Explain different law of thermodynamics along with their applications in pharmacy.

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- 6. a) What do you understand by degree of dissociation and osmolality?
 - b) Explain arrhenius theory of electrolytic dissociation.
- Discuss general principles of affecting solubility and distribution of any drug in any solvent.
- 8. Write short notes on: (any two)
 - a) Solid dispersion
 - b) Buffers in pharmacy
 - c) pH

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