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*Total No. of Questions : 8]* *[Total No. of Printed Pages : 2*

**Roll No .....**

# PY-111-CBCS

## B.Pharmacy, I Semester (Non-PCI Scheme)

Examination, June 2020

## Choice Based Credit System (CBCS)

## Physical Pharmacy - I

***Time : Three Hours***

***Maximum Marks : 60***

***Note:*** i) Attempt any five questions.

ii) All questions carry equal marks.

1. Explain the laws of thermodynamics, along with their applications in pharmacy.

2. What is the difference between ideal solutions and real solutions? Mention the importance of lowering of the vapour pressure and elevation of the boiling point.

3. Write a note on buffers in pharmaceutical system and biological system.

4. What is meant by solubility? Briefly explain the effect of solvents on the solubility of drugs.

5. Give in detail the colligative properties of electrolytic solutions and concentrated solutions of non-electrolytes.

6. Explain in detail the solid dispersions and their importance in enhancing the solubility of drugs.



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7. What is the Arrhenius theory of electrolytic dissociation? Give its applications.

8. Write short notes on any two.
   a) Polymorphism
   b) Eutectic Mixtures
   c) Common ion effect

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