| R10 |

I B.Pharmacy I Semester Supplementary Examinations, Oct/Nov 2013
PHYSICAL PHARMACY-I

Time: 3 hours   **Max Marks: 75**

Answer any FIVE Questions
All Questions carry equal marks

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1. Describe the methods of filling the container in aerosols. List out various applications of aerosols. [15]

2. Describe the applications of phase rule to the equilibrium between different phases of water. [15]

3. Mention different types of thermodynamics systems? Explain each one with example and also mention their applications. [15]

4. Define an entropy of a system? What are its units? Describe its importance and applications in pharmacy. [15]

5. (a) Write short note on Optical rotatory dispersion and its applications.
   (b) Write a note on Dielectric constant and Induced polarization. [7+8]

6. (a) Explain the method of determination of Optical activity.
   (b) Write a note on Induced Dipole moment. [8+7]

7. Discuss about the following
   (a) Elevation of boiling point.
   (b) Relative lowering of vapour pressure. [7+8]

8. (a) Explain indetail how Osmotic Pressure is determined?
   (b) Explain the Lands Berger method for the determination of molecular mass of the solute with the help of labelled diagramme. [7+8]

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