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R09

B.Pharm II Year I Semester (R09) Supplementary Examinations November 2016 PHYSICAL PHARMACY – I

Time: 3 hours Max. Marks: 70

Answer any FIVE questions All questions carry equal marks

- 1 Define phase rule. Explain the phase equilibrium concept with a phase diagram stating the states of matter.
- 2 Explain the first law and second law of thermodynamics with applications.
- Write notes on:
 - (a) Dielectric constant.
 - (b) Optical rotating dispersion with example.
- 4 Enumerate the properties of ideal and real solutions with suitable examples.
- 5 (a) Describe the properties of electrolyte solutions.
 - (b) Add a note on Arrhenius theory of electrolytic dissociation.
- 6 (a) Discuss the modern theory for acids ad bases
 - (b) Write about Sorensen's pH scale.
- 7 Define buffer capacity. Write the applications of buffers in pharmaceutical and biological system.
- 8 How to determine electromotive force using electrochemical cells?
