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MPY-101

M.Pharm I Semester EXAMINATION-December 1365 (Modern Analytical Technique)

Time: Three Hours Maximum Marks: 75 Minimum Pass Marks: 38

Note: Attempt any five questions. All questions carry equal marks.

- Explain the terms 'Chemical Shift' and spin spin coupling and their importance in structure elucidation disuss the expected PMQ spectre of (a) Acetaldehyde (b) ethyl benzoate (c) 1.1.2 trichloro propane.
- Q.2 What are different vibrations modes in inferenced spectroscopy? Describe the instrumentation and working of Ft –IR sectrophotometer. Give its merits and demerits compared to convention infrared spectroscopy.
- Q.3 Explain the principle of mass spectrometry. Describe the pragmentaton rules which help in the in pretetion of mass spectrum.
- Q.4 Discuss the principle, instrumentation and application of high performence liquid chromatography.
- Q.5 'a) Discuss the theoretical background for obtaining fluroscene. Describe the factors which affect the florescent efficiency.
 - (b) Give the instrumentation and appplication of atomic absorption spectroscopy.
- Q.6) What is radioimmuno assay technique?

 Give the pharmaceutical applications and limitations, of this technique.
- Q.7 Write short on any Two

Ion pair Chromatography

(b) Differential thermal analysis. RGPVonline.com

(c) X - Ray Crystallography.