

**Subject Code: PAQ2A**

**M. Pharm II Semester [R05] Regular/Supplementary Examinations, Dec 2013**

**ADVANCED PHARMACEUTICAL ANALYSIS –II  
(Pharmaceutical Analysis & Quality Assurance)**

**Time: 3 Hours**

**Max Marks: 60**

**Answer any FIVE questions  
All questions carry EQUAL marks**

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1. Discuss in detail the various ionisation techniques of mass spectroscopy.
2. Give an account on
  - a. X-ray diffraction and its applications
  - b. Plain and abnormal ORD curves and their significance
3. Write a brief note on
  - a. Presentation of ESR spectra
  - b. Applications of Raman spectroscopy
  - c. Mobile phases used in super critical fluid chromatography
4. Explain the principle and procedure for the quantitative estimation of the following classes of drugs :
  - a. Antibiotics
  - b. Steroidal hormones
5. Describe the principle and procedure involved in the qualitative and quantitative analysis of any two dosage forms by oxidative coupling reactions using MBTH.
6. Explain the uses of the following reagents in pharmaceuticals analysis with suitable examples:
  - a. PDAB
  - b. PDAC
  - c. Gibb's reagent
7. Describe quality control tests for uncoated and enteric coated tablet dosage forms. Write their methodology and acceptance criteria in detail.
8. Explain different types of glass containers and their quality control tests.

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