

QP Code: 105329

Reg No: .....

**First Year M.Pharm Degree Examinations– September 2013**  
(2011 Scheme)

**(Pharmaceutical Analysis)**

**Paper I - Advanced Pharmaceutical Analysis**

Time: 3 hrs

Maximum Marks: 100

- *Answer all questions*
- *Draw diagrams wherever necessary*

**Essays:** (2x20 =40)

1. Discuss the quality control tests to be carried out for tablets and eye drops. Explain the principle and procedure involved in the analysis of cortisone and benzyl penicillin
2. Explain in detail analysis of drugs originating from genetic engineering. Explain the principles and applications of immune fluorescence and radiotracer technique

**Short Essays:** (6 x10=60)

3. Discuss the principles and procedure involved in the estimation of any drug using the following reagents
  - 2,3,5-triphenyl tetrazolium salt
  - 2,6 dichloroquinone chloride
4. Describe the principle and procedure involved in estimation of :
  - Hydroxyl group
  - Ester group
5. Explain in detail the calibration of the following instruments
  - IR spectrophotometer
  - HPLC
6. Explain the procedures involved in the quality control of radio pharmaceuticals
7. Microbiological assay of vitamins
8. Discuss in detail the analysis of excipients in pharmaceutical formulations

\*\*\*\*\*