

QP Code: 105329

Reg No: .....

**First Year M.Pharm Degree Examinations– September 2014**  
(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. Explain the following: • Analysis of vaccines. • ELISA • QC test for External Preparations • LAL test.
2. Explain about validation and calibration of a HPLC. Describe the quality control tests for tablets and parenterals.

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

3. Explain the principles and procedures for the use of PDAB in pharmaceutical analysis.
4. Explain microbiological assay of antibiotics
5. Explain the detection and estimation of antioxidants and coloring materials in pharmaceutical formulations
6. Explain the principle and procedure involved in various physico-chemical methods of analysis of barbiturates.
7. Describe the immunofluorescence and immunoaffinity techniques used in pharmaceutical analysis.
8. Explain the principle and procedure involved in the estimation of amine and ester

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