

**QP CODE:302326**

**Reg.No: .....**

Third Year Pharm D Degree Supplementary Examinations - November  
2015

**Pharmaceutical Analysis**

**Time: 3 Hours**

**Total Marks: 70**

- Answer all Questions.
- Draw Diagrams wherever necessary.

**Essays**

**(3x10=30)**

1. Explain the working principle of HPLC with the help of neat labeled diagram. List the detectors used in HPLC and describe the function of any one.
2. Explain the principle and instrumentation of a spectrofluorimeter with a neat diagram.
3. Explain the principle of separation, equipment and application of gel electrophoresis.

**Short notes**

**(8x5=40)**

4. Explain the working principle of hydrogen electrode with diagram.
5. Explain the principle and different types of amperometric titrations using titration curve.
6. State and explain Beer-Lambert's law. Mention its deviation and reasons for the deviations.
7. Explain briefly the principle and adsorbents used in TLC.
8. Explain the principle and application of X-Ray Diffraction.
9. Explain GLP.
10. Explain the principle and instrumentation of polarimeter with a neat diagram.
11. Describe how samples are handled in IR spectra.

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