QP CODE:302326 **Reg.No: ……..**

Third Year Pharm D Degree Examinations - July 2015

Pharmaceutical Analysis

Time: 3 Hours **Total Marks: 70**

- Answer all Questions.
- Draw Diagrams wherever necessary.

Essays **(3x10=30)**

1. Explain the principle and instrumentation of IR spectroscopy with a neat diagram.
2. "Describe the instrumentation and theory of atomic absorption spectrometry
3. Classify chromatography. Explain the construction and working principle of GLC with a neat diagram.

Short notes **(8x5=40)**

4. "Describe the theory and instrumentation of DSC
5. Theoretical aspects of mass spectra.
6. ICH guidelines.
7. Explain the different electronic transitions involved in UV spectrophotometry with examples.
8. Explain in detail the various factors affecting the fluorescence intensity.
9. Conductometric titrations.
10. Explain plane polarized light, optical rotatory dispersion and circular dichroism.
11. Define electrode potential. Mention the examples for reference and indicator electrode used in potentiometry. Briefly explain how end point is detected by potentiometric titration.

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