Final Year B.Pharm Degree Examinations - July 2015

# PHARMACEUTICAL ANALYSIS - II

## Time: 3 Hours

- Answer all Questions.
- Draw diagrams and equations wherever necessary.

#### Essay

- 1. Explain the theory, instrumentation and applications of infrared spectrophotometry
- 2. Explain the principle of separation in gas chromatography. Classify the detectors used in gas chromatography. Describe the construction and working of any one.
- 3. Explain the theory and apparatus used in polarography in detail.

### Short notes

- 4. Preparation of a column in column chromatography
- 5. Detection in TLC.
- 6. Explain the mechanism of operation of an ion exchange column.
- 7. Differentiate TLC and HPTLC.
- 8. Explain the working and limitations of standard hydrogen electrode.
- 9. Apparatus used in conductometric titrations
- 10. Applications of thermal analysis
- 11. Explain the working principle of instrument used in nephelometric analysis.
- 12. Construction and working of dropping mercury electrode.
- 13. Explain the theory of UV visible spectrophotometry.
- 14. Light sources and detectors used in spectofluorimeter.
- 15. Theory of NMR spectroscopy.
- 16. Explain any one ionization technique in mass spectrometry
- 17. List the analytical method validation parameters as per ICH guidelines.

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## Total Marks: 100

(14x5=70)

(3x10=30)

## Reg.No: .....