

QP CODE: 302326

Reg. No:

**Third Year Pharm D Degree Supplementary Examinations
January 2019**

Pharmaceutical Analysis

Time: 3 Hours

Total Marks: 70

- Answer all Questions.
- Draw Diagrams wherever necessary.

Essays

(3x10=30)

1. Explain various vibrational transition of compounds in IR. Give detectors and application of IR spectroscopy.
2. Describe the reference electrodes used in potentiometry with their application in potentiometric titrations.
3. Explain validation methods, quality of equipment and validation of analytical instruments as per guidelines.

Short notes

(8x5=40)

4. Laws employed in UV and their deviation
5. Quenching and its types with examples
6. Explain the impact of R_f values in detection and quantification of drugs by TLC and paper chromatography
7. Principles and application of gel and paper electrophoresis
8. Give ion exchange chromatographic separation method and factors affecting the separation.
9. Atomic absorption spectroscopy and its applications
10. Diffraction pattern of solids and their detection by X-ray diffraction methods
11. Narrate construction and working of a dropping mercury electrode
