

QP CODE: 302326

Reg. No:

**Third Year Pharm D Degree Regular/Supplementary Examinations
February 2021**

Pharmaceutical Analysis

Time: 3 Hours

Total Marks: 70

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *Draw Diagrams wherever necessary*

Essays

(3x10=30)

1. Explain briefly the instrumentation of double beam UV-Visible spectrophotometer.
2. Explain the construction and functioning of glass electrode. Explain the various methods to determine end point of potentiometric titration. (5+5)
3. Explain the principle and development techniques, adsorbents, mobile phase and detection methods used in column chromatography. (2+2+2+2+2)

Short notes

(8x5=40)

4. Explain the modes of vibrations when a molecule interacts with IR radiations.
5. Calibration of analytical equipments.
6. Define quenching. Explain the different types of quenching.
7. Layer prewashing of HPTLC plates.
8. Describe the various development techniques in paper chromatography.
9. Explain the different types of conductivity cell.
10. List the types of silica gel used in TLC with their applications.
11. Optical rotatory dispersion.
