

QP CODE: 302326

Reg. No:

**Third Year Pharm D Degree Supplementary Examinations
August 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. Describe sources of quality variation in drug substances. Explain the methods to control the same.
2. Explain rate theory and plate theory of chromatography with their limitations and applications.
3. Explain potentiometric titrations. What are the methods of detecting end points in the same

Short notes

(8x5=40)

4. How is UV – visible spectrophotometer calibrated
5. Briefly explain the factors to be considered for selecting a chromatographic technique.
6. Detection of separated compounds in paper chromatography.
7. A blood sample suspected to contain organophosphorus poison needs to be analyzed by gas chromatography. Which detector is used for the same and why. Explain its working.
8. Explain the theory and significance of Karl Fischer titration.
9. List the advantages and disadvantages of amperometry over potentiometry.
10. Explain the working of Golay cell and pyroelectric detector used in IR spectrometer.
11. How does a hollow cathode lamp work
