Third Year Pharm D Degree Supplementary Examinations February 2023

Pharmaceutical Analysis

Time: 3 Hours

Total Marks: 70

(3x10=30)

(8x5=40)

- 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

- 1. Write in detail about the Working Concept and Instrumentation of HPLC. Discuss about Various terms used in chromatographic analysis.
- 2. Explain the principle of IR. Discuss in detail about various vibrational transitions and frequencies in IR spectroscopy in a neat diagram.
- 3. Explain the theory and instrumentation of flame photometry.

Short notes

- 4. Briefly explain about column packing and elution techniques.
- 5. Write down the principle and separation of gel electrophoresis and its application
- 6. Write down the various types of electronic excitation process.
- 7. Explain the various types of ions produced in mass spectroscopy. Detail about it and mention its applications.
- 8. What is luminescence and its various types.
- 9. Write down the validation parameter during method development.
- 10. Write the various titration curves in conductometric titrations.
- 11. What is Bragg's law. Explain briefly about powder X-ray diffraction technique.
