QP CODE: 302326	Reg. No:

Third Year Pharm D Degree Regular/Supplementary Examinations August 2023

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)

- Define validation and explain the validation of equipment and analytical instruments
- 2. Detail the construction of HPLC and its applications
- 3. Define Indicator electrodes. Explain about the constructions of glass electrodes

Short notes (8x5=40)

- 4. Derive the Beer -Lamberts Law
- 5. Classify the types of vibrations in infrared analysis
- 6. Theory of Fluorescence and phosphorescence
- 7. Write the plate preparation techniques in TLC
- 8. What are the different types of ions produced in mass analysis
- 9. Enumerate the Bragg's equation.
- 10. Write the instrumentation of Differential scanning colorimeter
- 11. Detail the principle and procedure involved in Karl Fishers Titrations
