

# **2010 scheme**

**QP CODE: 402006**

**Reg. No: .....**

## **Final Year B.Pharm Degree Supplementary Examinations May 2023**

### **Pharmaceutical Analysis – II**

**Time: 3 Hours**

**Total Marks: 100**

- *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 the analyzers used in mass spectrometry
2. Write on the principle and working of UV Spectrophotometry. Explain double beam spectrophotometry
3. With a neat diagram explain the components of instrumentation and detectors used in HPLC

**Short notes**

**(14x5=70)**

4. Write the detection of compounds using thin layer chromatography
5. Explain the fluorescence with Jablonki's diagram
6. Brief on counter current extraction
7. Explain the adsorption and partition theory
8. Write on HPTLC
9. Brief the basic concept of thermal analysis
10. Write the titration curves in amperometry
11. Write the principle and application of radio immuno assay
12. Brief on ionization techniques in mass spectrometry
13. Explain the application of electrophoresis
14. Write the principle of polarography
15. Explain TQM
16. Write on quality and validation of equipment
17. Explain the principle and application of nephelometry

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