

# **2010 scheme**

**QP CODE: 402006 (old scheme)**

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

## **Final Year B.Pharm Degree Supplementary Examinations October 2019 Pharmaceutical Analysis – II**

**Time: 3 Hours**

**Total Marks: 100**

- Answer all Questions.
- Draw diagrams and equations wherever necessary.

**Essays**

**(3x10=30)**

1. Describe the instrumentation of spectrofluorimeter. Outline its differences from that of UV visible spectrophotometer
2. Describe the principle involved in GLC. Mention the construction, working and applications of GLC.
3. Discuss working principle of glass electrode used in potentiometry. Add a note on endpoint detection in potentiometric titrations.

**Short notes**

**(14x5=70)**

4. Describe principles of adsorption chromatography. Add a note on development techniques in column chromatography
5. Establish relationship between fluorescence intensity and concentration. Mention any two drugs that can be assayed by fluorimetry
6. Describe the working principle involved in the working of TGA. What is a thermogram
7. State Lambert Beers law. Under what conditions Beers law is obeyed by substances
8. What is diffusion current. How it is measured
9. Describe instrumentation of paper electrophoresis
10. What is ICH. Mention its objectives
11. Define validation. What parameters are validated for analytical method development
12. Types of protons identified through NMR spectrum with appropriate examples
13. Explain conductometric titration for analysis of a mixture of strong acid and weak acid with strong base as titrant with example
14. Detection systems in HPTLC
15. Explain two dimensional paper chromatography with an example
16. Describe the principle and applications of mass spectrometry
17. Explain principle of separation in HPLC

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