2012 scheme

QP CODE: 412006 **Reg. No: ……..**

Final Year B.Pharm Degree Supplementary Examinations April 2024
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. Write the principle and applications involved in gas chromatography. List out various detectors used in gas chromatography and explain any one in detail. (3+3+1+3)
2. Explain the theory of nuclear magnetic resonance spectroscopy. What are the differences between proton NMR and ^{13}CNMR.
3. Explain the principles of total quality management

Short notes **(14x5=70)**

4. Explain the different techniques for the preparation of TLC plates.
5. Write the principle involved in paper chromatography. Explain Rf value and Rx value. (3+1+1)
6. Ion exchange chromatography.
7. Explain the different types of conductometric titrations.
8. Write short notes on thermogravimetry.
9. Name the reference electrodes used in potentiometry. Explain glass electrode in detail (1+4)
10. Explain electrophoresis.
11. What is a monochromator. What are the different monochromators used in UV – visible spectrophotometers.
12. Classify IR vibrations.
13. Define chemical shift. Explain the various factors affecting chemical shift. (1+4)
14. Explain types of interferences in atomic absorption spectroscopy.
15. Write the principle and applications of atomic emission spectroscopy. (2.5+2.5)
16. International conference on Harmonisation.
17. Radio immuno assay.

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