

AV – 2314

Final Year B. Pharm. (Annual Pattern) Examination

PHARMACEUTICAL ANALYSIS – II

Paper – IV – T – 6

(USC – 35027)

P. Pages : 2

Time : Three Hours]

[Max. Marks : 80

- Note :** (1) All question carry equal marks.
(2) Answer any **Eight** questions.
(3) Diagrams and Chemicals equations should be given wherever necessary.

1. Write theory and instrumentation of UV – visible spectroscopy. 10
2. Explain about instrumentation of HPLC. Add a note on detectors used in HPLC. 10
3. Define validation. Write its various types with examples. 10
4. Differentiate atomic emission and atomic absorption spectroscopy. Write applications and advantages of flame photometry. 10
5. Explain theory and principles of nuclear magnetic resonance spectroscopy. Write its applications. 10
6. Write applications of mass spectrometry. Add a note on ring rule and nitrogen rule. 10
7. Discuss various types of conductometric titrations. Write advantages of conductometry. 10

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8. Classify chromatographic techniques. Add a note on HPTLC. 10
9. Write theory and instrumentation of differential thermal analysis. 10
10. Write short notes on (Any **Two**) :—
- (a) TQM (b) ICH (c) GLP 10

