

AV – 2335

Fourth Semester B. Pharm. II Examination

**PHARMACEUTICAL ANALYSIS – I**

Paper – 4.3

( USC – 35157)

P. Pages : 2

Time : Three Hours ]

[Max. Marks : 60

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- Note :** (1) All questions carry equal marks.  
(2) Answer any **Five** questions.  
(3) Diagrams and Chemicals equations should be given wherever necessary.  
(4) Illustrate your answer wherever necessary, with the help of neat sketches.

1. (a) What is errors, classify the errors, how to minimise errors explain in detail ? 6  
(b) Explain the fundamentals of volumetric analysis in detail with examples. 6
2. What is Acid – base titration ? Explain in detail Neutralization reaction with example, note on different their types. 12
3. Explain the concept of complexation, How the complex formed and note on stability of complex. 12
4. Explain the theory of Redox titration, oxidation-reduction curve, add note on redox indicator. 12
5. What is non-aqueous titration, which types of solvents used in this titration ? Write details of Karl – Fischer method. 12
6. What is argentometric titration, Write details of Mohar's Method. 12

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7. Write short notes on (Any **Three**) :—

- (a) t – test and Q – test.
- (b) Choice of indicator.
- (c) Redox indicators.
- (d) Sodium nitrite titration.

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