

AV – 2297

Second Year B. Pharm. (Annual Pattern) Examination

PHARMACEUTICAL ANALYSIS – I

Paper – II – T – 3

(USC – 35010)

P. Pages : 2

Time : Three Hours]

[Max. Marks : 80

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

1. Write theory and principle of precipitation titration. Add a note on assay of sodium chloride injection. 10
2. Discuss about Henderson-Hasselbach equation. Write assay procedure for aspirin powder. 10
3. Classify errors. Discuss the methods used to minimize errors. 10
4. Write the principle of non-aqueous titration. Discuss about various types of solvents used in non-aqueous titration. 10
5. What is meant by complexation and chelation ? Write about various types of complexometric titration. 10
6. Explain about various steps involved in gravimetric analysis. Write application of gravimetric analysis. 10

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7. What are redox titrations ? Explain titration involving potassium permanganate. 10
8. Explain the law of mass action. Discuss about neutralization indicators in detail. 10
9. Discuss about various methods of end point detection of complexometric titration. Write assay of calcium gluconate injection. 10
10. Write short notes on (Any **Two**) :—
- (a) Diazotization titration.
 - (b) Kjeldahl method of nitrogen estimation.
 - (c) Oxygen flask combustion. 10

