

QP CODE:202006 (OLD SCHEME)

Reg.No:

Second Year B.Pharm Degree Supplementary Examinations - March 2015

PHARMACEUTICAL ANALYSIS (2010 Scheme)

Time: 3 Hours

Total Marks: 100

- Answer all Questions.
- Write equations wherever necessary.

Essay

(3x10=30)

1. Explain Werner's co-ordination number. List the use of masking and de-masking agents in the analysis of mixtures of metal ions by complexometry.
2. Explain ionic product of water. Define pH. Explain Henderson-Hassel Bach equation
3. List out the solvents used in non-aqueous titrations and mention their properties. How do you estimate ephedrine hydrochloride by non-aqueous titration method.

Short notes

(14x5=70)

4. Explain the methods expressing concentration.
5. How will you determine end point in non-aqueous titration.
6. Describe the following with examples • Co-precipitation • Post-precipitation.
7. Mention the role of buffers in pharmaceutical analysis. How will you prepare an acidic buffer.
8. Indicators used in redox titration.
9. Explain the principle involved in iodometric titrations giving an example
10. Gasometry.
11. Estimation of nitrogen by Kjeldhal method.
12. Explain Karl Fischer method.
13. Explain briefly on oxygen flask combustion method.
14. Describe the various methods of minimizing errors.
15. Explain significant figures with examples
16. Define accuracy and precision.
17. State and explain the law of mass action.
