

Second Year B.Pharm Degree Examinations - July 2015

## **(2012 Scheme)**

### **PHARMACEUTICAL ANALYSIS**

**Time: 3 Hours****Total Marks: 100**

- Answer all Questions.
- Write equations wherever necessary.

**Essay****(3x10=30)**

1. Discuss the theory of redox titrations. How will you prepare and standardize 0.1 N potassium permanganate.
2. Explain the method of estimation of salt of weakly basic substances by non aqueous titrations. How will you standardize 0.1 N acetous perchloric acid
3. What are secondary standards. Explain the various modes of expressing concentrations in titrimetry

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

4. Henderson – Hasselbach equation
5. Scope and limitations of non aqueous titrations
6. Nernst equation
7. Different methods of argentometric titrations
8. Methods of end point detection in complexometric titrations
9. Werner's coordination number in complexometry
10. Titrations involving titanous chloride
11. Outline the various steps involved in gravimetric analysis
12. Gravimetric determination of calcium as calcium oxalate
13. Preparation and standardization of Karl Fischer reagent
14. Outline the principle and equations involved in diazotization titrations with suitable examples
15. Importance of different types of solvents used in non aqueous titrations
16. Explain the preparation and standardization of 0.1 N tetra butyl ammonium hydroxide
17. Principle of halides assay by Volhard's method

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