Second Year B.Pharm Degree Supplementary Examinations February 2017

PHARMACEUTICAL ANALYSIS

(2012 Scheme)

Time: 3 Hours

- Answer all Questions.
- Write equations wherever necessary.

Essay

- 1. Name the conditions that a reaction must satisfy for being used in a precipitation titration. Explain the applications of precipitation titrations with suitable examples.
- 2. Classify volumetric methods and briefly explain each method. Explain the method of calibration of a burette
- 3. Discuss the ionic theory of indicator using phenolphthalein as example. Explain the method of preparation and standardization of 0.1 N Tetra butyl ammonium hydroxide in toluene-methanol.

Short notes

- 4. Salt effect in gravimetric analysis with examples.
- 5. Explain briefly the steps involved in quantitative analysis
- 6. Explain Bronsted-Lowry and Lewis concept of acids and bases. What are its advantages and limitations.
- 7. In the titration of 0.1N acetic acid versus 0.1N NaOH, if Litmus (pT=7.0) is used as the indicator, what type of error is introduced. State whether litmus is a suitable indicator or not. Justify your answer.
- 8. Classify and define types of solvents used in non-aqueous titrations
- 9. Describe the types of complexometric titrations
- 10. Explain the method of preparation and standardization of standard solution of disodium EDTA
- 11.applications of masking in complexometric analysis with examples
- 12. Explain the advantages of dichrometry over permanganometry.
- 13. Explain the method of preparation and standardization of standard solution of 0.1N potassium dichromate.
- 14. Explain the conditions for iodometric titrations.
- 15. The effect of temperature and pH on completeness of precipitation in gravimetric analysis.
- 16. Describe the Kjeldhal method of nitrogen estimation
- 17. Method of preparation and standardization of 0.1N sodium nitrite solution

Total Marks: 100

(14x5=70)

(3x10=30)

Reg.No: