### QP CODE:202006 (OLD SCHEME) Reg.No: .....

Second Year B.Pharm Degree Supplementary Examinations - July 2016

## PHARMACEUTICAL ANALYSIS (2010 Scheme)

### Time: 3 Hours

- Answer all Questions.
- Write equations wherever necessary. •

#### Essay

- 1. What are redox titrations. Discuss the principle and theory of redox titrations with a brief note on its indicators.
- 2. Explain the Kjeldahl method of nitrogen estimation. Mention the principle involved in Karl Fischer method.
- 3. Define buffer and derive Henderson-Hasselbatch equation. Explain any two acidbase concept.

### Short notes

- 4. Precision, accuracy and standard deviation.
- 5. pH indicators.
- 6. Masking and de-masking agents.
- 7. What is common ion effect and how does it affect the solubility and solubility product.
- 8. Diazotization titrations and its application in pharmacy.
- 9. What is precipitation titration and explain the types of precipitation.
- 10. Principle involved in gravimetric analysis.
- 11. Buffer solutions.
- 12. Define primary and secondary standards by giving suitable examples.
- 13. Assay of nitrous oxide by gasometry.
- 14. Types of errors.
- 15. How will you measure the electrode potential.
- 16. Explain briefly about modified Volhard's method.
- 17. What is co-precipitation and post-precipitation.

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# **Total Marks: 100**

(14x5=70)

(3x10=30)