

II B. Pharmacy II Semester Supplementary Examinations, April/May - 2019
PHARMACEUTICAL ANALYSIS-I

Time: 3 hours

Max. Marks: 70

Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B**)
2. Answering the question in **Part-A** is Compulsory
3. Answer any **THREE** Questions from **Part-B**

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**PART -A**

1. a) What is a monograph? Write its structure. (4M)
- b) Write in brief on law of mass action. (4M)
- c) Write assay of ferrous sulfate. (4M)
- d) Write in brief on indicators used in redox titrations. (4M)
- e) Write the role of buffers in complexometry. (3M)
- f) What is Karl-Fisher reagent? (3M)

**PART -B**

2. a) What are significant numbers? Write in detail on their importance in pharmaceutical analysis. (8M)
- b) Write the method used for calibration of measuring cylinder and micropipette. (8M)
3. a) Explain the principle, procedure and significance of Strong acid -Weak base titrations. (10M)
- b) Write a note on the reagents used in non-aqueous titrations. (6M)
4. a) Explain the principle, procedure, applications and disadvantages of iodometry. (10M)
- b) Write in brief on titrations using Ceric Ammonium Sulfate. (6M)
5. a) Write in detail on Volhard method. (10M)
- b) Write the role of Masking and Demasking agents in pharmaceutical analysis. (6M)
6. Write the principle and procedure involved in the assay of (16M)  
(a) Calcium lactate (b) Copper Sulphate (c) Thiamine
7. a) Discuss the theories of complex formation and properties of metal complexes. (8M)
- b) What is an indicator? Discuss the factors influencing selection of an indicator. (8M)