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B PHARM
(SEM I) THEORY EXAMINATION 2017-18
PHARMACEUTICAL ANALYSIS-I

Time: 3 Hours**Total Marks: 75****Notes:** Attempt all Sections. Assume any missing data.**SECTION A**

- 1. Attempt all questions in brief. 10 x 2 = 20**
- Calculate Normality of 20 gm NaOH for 100 ml solution.
 - Define Acid and Base according to Bronsted Lowry theory.
 - What is Ohm's law? Define specific resistance.
 - Define protogenic and protophilic solvent.
 - What is polarography?
 - Oxidation involves _____ of electron and reduction involves _____ of electrons.
 - Define Oxidizing and Reducing agents.
 - What are Masking and Demasking agents?
 - Calculate significant figure of 0.1×0.2 and $0.1 / 0.2$ up to three digit.
 - Differentiate between Co-precipitation and Post-precipitation.

SECTION B

- 2. Attempt any two of the following: 2 x 10 = 20**
- Write a note on Method of expressing concentration.
 - Give a detail description of Mohr's method and Volhard's method.
 - Explain the theory of Redox titrations and give the concept of Oxidation and Reduction.

SECTION C

- 3. Attempt any five parts of the following: 7 x 5 = 35**
- What is the role of Quantitative analysis in quality control?
 - What is error? Differentiate between Determinate and Indeterminate error.
 - Discuss the types of complexometric titrations.
 - Define digestion or Ostwald ripening and give its significance in gravimetric analysis.
 - Write a short note on Iodimetry and Iodometry.
 - Discuss the type of solvents used in non aqueous titration.
 - What are indicators? Discuss the theory of indicators.
 - Discuss the preparation and standardization of Oxalic acid or Sodium hydroxide.