

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

Time: 3 Hours

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Total Marks: 75**Notes:** Attempt all Sections. Assume any missing data.**SECTION A****1. Attempt all questions in brief.****10 x 2 = 20**

- a. Calculate Normality of 20 gm NaOH for 100 ml solution.
- b. Define Acid and Base according to Bronsted Lowry theory.
- c. What is Ohm's law? Define specific resistance.
- d. Define protogenic and protophilic solvent.
- e. What is polarography?
- f. Oxidation involves _____ of electron and reduction involves _____ of electrons.
- g. Define Oxidizing and Reducing agents.
- h. What are Masking and Demasking agents?
- i. Calculate significant figure of 0.1×0.2 and $0.1 / 0.2$ up to three digit.
- j. Differentiate between Co-precipitation and Post-precipitation.

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SECTION B**2. Attempt any two of the following:****2 x 10 = 20**

- a. Write a note on Method of expressing concentration.
- b. Give a detail description of Mohr's method and Volhard's method.
- c. Explain the theory of Redox titrations and give the concept of Oxidation and Reduction.

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SECTION C**3. Attempt any five parts of the following:****7 x 5 = 35**

- a. What is the role of Quantitative analysis in quality control?
- b. What is error? Differentiate between Determinate and Indeterminate error.
- c. Discuss the types of complexometric titrations.
- d. Define digestion or Ostwald ripening and give its significance in gravimetric analysis.
- e. Write a short note on Iodimetry and Iodometry.
- f. Discuss the type of solvents used in non aqueous titration.
- g. What are indicators? Discuss the theory of indicators.
- h. Discuss the preparation and standardization of Oxalic acid or Sodium hydroxide.

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