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B PHARM
(SEM I) THEORY EXAMINATION 2022-23
PHARMACEUTICAL ANALYSIS

Time: 3 Hours**Total Marks: 75****Note:** Attempt all Sections. If require any missing data; then choose suitably.

SECTION A

1. Attempt all questions in brief.**10 x 2 = 20**

- (a) Define the principle of diazotization titration.
- (b) Differentiate between primary and secondary standards.
- (c) Explain the term digestion and Ostwald ripening.
- (d) Define protogenic and protophilic solvent. Give examples.
- (e) Describe acid and base according to Lewis theory.
- (f) Define the term Normality and Molarity.
- (g) Differentiate between Iodimetry and Iodometry titration.
- (h) Explain the term Conductometric titration.
- (i) Define Oxidizing and Reducing agents. Give examples.
- (j) Define Ilkovic equation.

SECTION B

2. Attempt any twoparts of the following:**2 x 10 = 20**

- (a) Define error and classify them? Illustrate the ways of minimizing the error.
- (b) Explain the principle of gravimetric analysis and summarize the steps involved in it.
- (c) Explain the construction and working of dropping mercury electrode, rotating platinum electrode.

SECTION C

3. Attempt any fiveparts of the following:**7 x 5 = 35**

- (a) Explain about Fajan method in precipitation titration. Explain about masking agent and demasking agents.
- (b) Define redox titration. Summarize the concept of oxidation and reduction.
- (c) Define pharmaceutical analysis. Outline the various techniques of analysis used in pharmaceuticals.
- (d) Write a note on alkalimetry and acidimetry.
- (e) Explain the methods to determine the end point in potentiometric titration.
- (f) Define the term indicator. Discuss the theories of acid base indicator.
- (g) Explain the principle and interpret the method of diazotization titration.