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B. PHARM
(SEM 1) THEORY EXAMINATION 2022-23
PHARMACEUTICAL ANALYSIS-I

Time: 3 Hours

Total Marks: 75

Note: Attempt all Sections. If require any missing data; then choose suitably.

SECTION A

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1. Attempt all questions in brief.

10 x 2 = 20

- Describe the term Molarity.
- Differentiate between primary and secondary standard.
- Explain the levelling and differentiating effect.
- Describe aqueous and non-aqueous titration.
- Illustrate the significance of modified Volhard's method.
- $KCl + AgNO_3 \rightarrow AgCl + KNO_3$, Predict the given example of reaction is related to which titration.
- Define the term Indicator.
- Define the terms oxidation and reduction.
- Explain about standard and indicator electrode.
- Discuss electrochemical methods of analysis.

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SECTION B

2. Attempt any two parts of the following:

2 x 10 = 20

- Explain the various methods of expressing concentration in detail.
- Classify acid base indicators. Explain the theory of indicators with suitable examples.
- Discuss the detailed account of various steps involved in gravimetric analysis.

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SECTION C

3. Attempt any five parts of the following:

7 x 5 = 35

- Outline the various techniques of analysis used in pharmaceuticals.
- Explain various neutralization curve of acid base titrations.
- Describe a brief note on Mohr's method of precipitation titration.
- Differentiate between Iodimetric and Iodometric titrations with suitable examples.
- Classify different types of redox titrations. Discuss the principle of Dichrometry.
- Discuss the principle, instrumentation, and applications of conductometry.
- Illustrate the working of Dropping Mercury Electrode (DME).

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