Printed Pages: 01 **Sub Code: BP-102T**

Paper Id: 233159 **Roll No.** | | | | | | | | | | |

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

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

(a) Describe the term Molarity.

(b) Differentiate between primary and secondary standard.

(c) Explain the levelling and differentiating effect.

(d) Describe aqueous and non-aqueous titration.

(e) Illustrate the significance of modified Volhard's method.

(f) $KCl + AgNO_3$ $AgCl + KNO_3$, Predict the given example of reaction is related to which titration.

(g) Define the term Indicator.

(h) Define the terms oxidation and reduction.

(i) Explain about standard and indicator electrode.

(j) Discuss electrochemical methods of analysis.

SECTION B

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

(a) Explain the various methods of expressing concentration in detail.

(b) Classify acid base indicators. Explain the theory of indicators with suitable examples.

(c) Discuss the detailed account of various steps involved in gravimetric analysis.

SECTION C

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

(a) Outline the various techniques of analysis used in pharmaceuticals.

(b) Explain various neutralization curve of acid base titrations.

(c) Describe a brief note on Mohr's method of precipitation titration.

(d) Differentiate between Iodimetric and Iodometric titrations with suitable examples.

(e) Classify different types of redox titrations. Discuss the principle of Dichrometry.

(f) Discuss the principle, instrumentation, and applications of conductometry.

(g) Illustrate the working of Dropping Mercury Electrode (DME).

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