**Sub Code: BP102T**

## B PHARM (SEM-I)

## THEORY EXAMINATION 2021

## PHARMACEUTICAL ANALYSIS-I

*Time: 3HoursTotal Marks: 75*

**Note: Attempt all Sections.**

### SECTION A

**Very Short Answer (Attempt *all* questions) 10 x 2 = 20**

a. What is an Oxidation? Give example of Oxidizing agents

b. Define Co-precipitation and Post-precipitation

c. Define Acid and Base according to Lewis theory

d. Write a formula of Molarity and PPM

e. Draw the structure of Phenolphthalein in two different medium.

f. Differentiate between Titrant and Titrand

g. How you will prepare 0.5N NaOH solution

h. Define the Accuracy and Precision

i. What are the Redox indicators?

j. Calculate Equivalent weight of $KMnO_4$ in neutral and alkaline medium

### SECTION B

**Short Answer (Attempt any 5 questions)    5 x 7 = 35**

a. Describe different methods of expressing concentration of solutions

b. Define the indicator. Discuss the theories of indicator

c. Write a short note on Law of mass action and Common ion effect

d. Differentiate between iodimetry and iodometry

e. What is salt hydrolysis? Discuss the classification of salt hydrolysis.

f. Write a short note on Law of mass action and Common ion effect

g. What are Buffers? Explain the mechanism of action of buffer

### SECTION C

**Long Answer (Attempt any 2 questions) 2 x 10 = 20**

a. Define the pharmaceutical analysis. Discuss the different techniques of analysis

b. Define the pH. Explain the Henderson- Hasselbach equation

c. Write a brief note on thermo gravimetric curve