Printed pages: 01 **Sub Code: BP102T**

Paper Id: | 5 | 0 | 0 | 2 | **Roll No:** | | | | | | | | | | |

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

Time: 3 Hours ***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 protophillic 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 X 0.2 and 0.1 / 0.2 up to three digit.
j. Differentiate between Co-precipitation and Post-precipitation.

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.

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.