Printed Pages: 01 **Sub Code:BOP114**

Paper Id: 150124 **Roll No.** | | | | | | | | | | |

B. PHARM.
(SEM I) THEORY EXAMINATION 2018-19
PHARMACEUTICAL ANALYSIS-I

Time: 3 Hours ***Total Marks: 100***

Note: 1. Attempt all Sections. If require any missing data; then choose suitably.

SECTION A

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

a. Define the termoxidation number.
b. What isMolality? Explain by using suitable example.
c. Define "Standard Value".
d. Calculate equivalent weight of $KMnO_4$ in neutral media in a redox reaction.
e. Write the method of preparation for 0.2N NaOH solution.
f. What do you understand by pH?
g. Define the term "digestion".
h. What is indicator?
i. If a silver coin contains 20g of gold as standard and after analysis, the analyst observed 19.00g of gold present in the coin. Calculate the percentage error for the above observation.
j. What do you understand by end point?

SECTION B

2. Attempt any *three* of the following: 10 x 3 = 30

a. Give the details about oxidation reduction curves with suitable examples.
b. Write a note on Accuracy and Precision with suitable example.
c. Write a note on Gay Lussac's Method.
d. Write a note on indicators used in redox titrations.
e. Write a note on neutralization curve between Strong acid and strong base with complete illustration including neutralization curve graph.

SECTION C

3. Attempt any *one* part of the following: 10 x 1 = 10

(a) Write the concepts of acid and base on the basis of Arrhenius theory, Bronsted Lowry theory and Lewis Theory.
(b) Write a detailed note on Neutralization Curve between weak acid and strong base.

4. Attempt any *one* part of the following: 10 x 1 = 10

(a) Give the various theories of indicators used in acid base titrations.
(b) Write a note on Fajan's Method

5. Attempt any *one* part of the following: 10 x 1 = 10

(a) Give the details of Primary and Secondary Standards.
(b) How you will estimate Barium as Barium sulphate through gravimetric analysis?

6. Attempt any *one* part of the following: 10 x 1 = 10

(a) Write a note on Law of Mass action and Henderson – Hasselbach equation.
(b) How you will prepare and standardize 1N $KMnO_4$?

7. Attempt any *one* part of the following: 10 x 1 = 10

(a) Write a short note on Precipitation, Co-precipitation and Post precipitation.
(b) Explain the various steps involved in Gravimetric analysis.