Sub Code:BP102T

Paper Id: 150102 Roll No: | | | | | | | | | | | | | |

B PHARM
(SEM-I) THEORY EXAMINATION 2019-20
PHARMACEUTICAL ANALYSIS-I

Time: 3 Hours *Total Marks: 75*

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

SECTION A

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

a. What do you mean by normality?

b. Define the following terms standard solution and its types.

c. Describe the fundamental of volumetric analysis.

d. Write a note on significant figure.

e. What is pH?

f. What is photogenic and protophllic.

g. Explain the leveling and differentiating effect.

h. What is masking and demasking agent.

i. Write about acid base indicator.

j. What are electrochemical methods of analysis**?**

SECTION B

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

a. Explain the standardization of $KMnO_4$ using sodium oxalate.

b. Give construction and working of reference electrochemical cell as Standard hydrogen, silver chloride electrode and calomel electrode.

c. Discuss fajan's method of precipitation titration. Explain about co precipitation and post perception.

SECTION C

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

a. What are mixed indicators? Give examples of at least two mixed indicators and their advantage

b. Classify errors? Suggest the ways of minimizing them.

c. State modern concept of acid & bases.

d. Derive the Henderson hasselbach equation for weak acid & its salt.

e. Write the theory of acid and base titrations.

f. Write a note on estimation of boric acid.

g. Write a note on fajan's method.