Paper Id: 150114 Roll No:

B. PHARM

(SEM-I) THEORY EXAMINATION 2019-20

PHARMACEUTICAL ANALYSIS-I

Time: 3 Hours ***Total Marks: 70***

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

SECTION A

1. Attempt *all* questions in brief. 2 x 7 = 14

a. What do you mean by RIA?
b. Define Primary standard.
c. How you will prepare 100ml of 0.2N Oxalic acid solution.
d. Give the names of indicator used Fajan's method.
e. Define Errors.
f. What is Oxidation and Reduction?
g. Define Buffers.

SECTION B

2. Attempt any *three* of the following: 7 x 3 = 21

a. Define Analysis. Discuss about various techniques of Analysis.
b. What is pH? Explain about Henderson-Hasselbach equation.
c. Explain about the concept of oxidation and reduction with suitable examples.
d. Write a note on pM indicator.
e. Discuss the principle and application of RIA.

SECTION C

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

(a) Explain the principle and types of complexometric titration.
(b) Explain Kjeldahl method for estimation of Nitrogen.

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

(a) Explain the basic concept of acid and base.
(b) How would you prepare and standardize the 0.05M Disodium Edetate?

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

(a) Define Indicators with examples. Write about theories of different types of indicators.
(b) Write the principle and application of Mohr's method.

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

(a) Write a detailed note on Karl Fischer titration.
(b) Classify the errors. Discuss the methods used to minimize the errors.

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

(a) Write the principle and application of diazotization titration.
(b) Discuss about iodometry and iodimetry.