

Paper Id:

150102

Roll No:

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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.