

Paper Id: **150102**

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

Time: 3 Hours

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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 protophylic.
- 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?

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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.

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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.

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