

Paper Id: 

<b>150102</b>
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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 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?

**SECTION B**

- 2. Attempt any *two* parts of the following: **2 x 10 = 20****
- a. Explain the standardization of  $\text{KMnO}_4$  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.