

Paper Id:

150124

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

Time: 3 Hours**Total Marks: 100****Note:** Attempt all Sections. If require any missing data; then choose suitably.**SECTION A****1. Attempt all questions in brief.****2 x 10 = 20**

- a. What is an Oxidation? Give example of Oxidizing agents
- b. What are the Redox indicators?
- c. Define Acid and Base according to Lewis theory
- d. Write a formula of Molarity and PPM
- e. Draw the structure of Phenolphthalein in two different medium.
- f. Differentiate between Titrant and Titrand
- g. How you will prepare 0.5N NaOH solution
- h. Define the Accuracy and Precision
- i. Define Co-precipitation and Post-precipitation
- j. Calculate Equivalent weight of KMnO_4 in neutral and alkaline medium

SECTION B**2. Attempt any three of the following:****10x3=30**

- a. Define the pharmaceutical analysis. Discuss the different techniques of analysis
- b. Define the pH. Explain the Henderson- Hasselbach equation
- c. Discuss titrations involving Ceric ammonium sulphate and potassium permanganate
- d. Write a brief note on thermo gravimetric curve
- e. Explain the Mohr's method in detail

SECTION C**3. Attempt any one part of the following:****10x1=10**

- a. Describe different methods of expressing concentration of solutions
- b. Define the indicator. Discuss the theories of indicator

4. Attempt any one part of the following:**10x1=10**

- a. Differentiate between iodimetry and iodometry
- b. What are primary standards? And how they are differ from secondary standards?

5. Attempt any one part of the following:**10x1=10**

- a. What is argentometric titration? Explain the Volhard method in detail
- b. Explain about various steps involved in gravimetric analysis. Discuss its application.

6. Attempt any one part of the following:**10x1=10**

- a. Write a short not on volhard method. What is the difference form modified volhard method?
- b. Write a short note on Law of mass action and Common ion effect

7. Attempt any one part of the following:**10x1=10**

- a. What is salt hydrolysis? Discuss the classification of salt hydrolysis.
- b. What are Buffers? Explain the mechanism of action of buffer