Sub Code:BOP114

Paper Id: 150124 Roll No:

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

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