[BPHARM 0122]   **JANUARY 2022**   **Sub. Code: 2003**
(MARCH 2021 EXAM SESSION)

B.PHARMACY DEGREE COURSE (SEMESTER EXAMINATIONS)
PCI Regulation 2017 – SEMESTER I
PAPER II – PHARMACEUTICAL ANALYSIS - I
Q.P. Code: 562003

Time: Three hours   **Maximum: 75 Marks**

I. Elaborate on: Answer any TWO questions.   **(2 x 10 = 20)**

1. What are the different indicators used in Complexometric titration? Describe the use of Masking and Demasking agents in Complexometry.
2. Describe in detail about the following
   a) Volhard's method b) Fajan's method
3. Discuss the construction, working, advantages and disadvantages of Dropping Mercury Electrode.

II. Write notes on: Answer any SEVEN questions.   **(7 x 5 = 35)**

1. Write briefly about the different types of Errors and methods to minimize the Errors.
2. Explain the various steps involved in Gravimetric analysis.
3. Write the principle, reaction and procedure involved in the Limit test for Iron.
4. Describe in detail about the theories of Acid-base indicators.
5. Discuss in detail about the applications of Conductometric titrations.
6. Give an account on the preparation and standardization of Hydrochloric acid.
7. Explain the principle and applications of Dichrometry and Iodimetry.
8. Define Potentiometry. Discuss the construction and working of any one Indicator Electrode.
9. How will you estimate Ephedrine HCl by Non aqueous titration?

III. Short answers on: Answer ALL questions.   **(10 x 2 = 20)**

1. What do you mean by Molarity?
2. Define Precipitation titration.
3. What is Nernst equation?
4. Define Migration current.
5. What is Pharmacopoeia?
6. Define Precision.
7. What is Iodometry?
8. List out types of solvents used in Non-aqueous titrations.
9. Define Cerimetry.
10. What are the advantages of Conductometric titrations?

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