

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[LR 0121]

JANUARY 2021

Sub. Code: 2003

(MARCH 2020 EXAM SESSION)

B. PHARMACY DEGREE EXAMINATION

PCI Regulation 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. Define Diazotisation titration. Explain the basic principle, methods and applications of Diazotisation titration.
2. What is Complexometric titration? Discuss in detail about various types of Complexometric titration with suitable examples.
3. What are Reference Electrodes? Describe the construction, working, advantages and disadvantages of Standard Hydrogen Electrode and Calomel Electrode.

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

1. Discuss the principle and procedure involved in Mohr's method.
2. Write a brief note on pM indicators.
3. Define Titration. Explain the choice of indicators in Acid-base titration.
4. With the help of a neat diagram, explain the construction and working of Rotating Platinum Electrode.
5. Define Gravimetric analysis. Write a note on Co-precipitation and Post precipitation.
6. Explain the various types of solvents used in Non aqueous titration.
7. Define Pharmaceutical analysis. What are the different methods of Expressing Concentration?
8. Discuss the sources of impurities in medicinal agents.
9. Write briefly about the preparation and standardisation of Potassium permanganate.

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

1. What is Iodimetry?
2. Define Buffer with examples.
3. Define Error. Classify them.
4. Write the principle of Polarography.
5. Classify Redox indicator.
6. Define Conductometric titration.
7. What is Bromatometry?
8. Define Limit test.
9. What do you mean by Adsorption indicators? Give examples.
10. Define Significant figure.
