

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

[PHARM D 1122]

**NOVEMBER 2022
(OCTOBER 2022 EXAM SESSION)**

Sub. Code: 3805

**PHARM. 'D' DEGREE EXAMINATION
FIRST YEAR (2009-2010 Regulation)
PAPER V – PHARMACEUTICAL INORGANIC CHEMISTRY
Q.P. Code : 383805**

Time : Three hours

Answer ALL Questions

Maximum : 70 Marks

I. Elaborate on:

(4 x 10 = 40)

1. Explain the theory of various Precipitation titrations. Illustrate the endpoint detection involved in Fajan's method.
2. Describe the Preparation, Assay, Storage container, labeling, handling precautions and uses of Oxygen.
3. Summarize the principle involved in Non-Aqueous titration and explain various solvents used in the non-aqueous titration.
4. Detail the ideal properties of Antacids and Significance of combination antacid therapy with examples.

II. Write notes on:

(6 x 5 = 30)

1. Write notes on masking and demasking agents.
2. Explain various Acid-Base concept and Buffer solutions.
3. Summarize the principle and procedure involved in limit test for Arsenic.
4. Explain the mechanism of action of antimicrobial agents. Write the preparation and assay of Boric acid.
5. Describe basic concepts of Gravimetry and mention its applications.
6. Define the terms with examples
 - i) Antacid
 - ii) Acidifier
 - iii) Saline Cathartics
 - iv) Expectorant
 - v) Sedatives.
