

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

[PHARMD 0122]

**JANUARY 2022
(OCTOBER 2021 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. Define primary and secondary standards. What are the requirements of primary standard? Add a note on law of mass action and Henderson-Hasselbalch equation.
2. Define Dentrifrices with examples. Explain on pM indicators.
3. a) What are saline cathartics and write the mechanism of action.
b) Discuss the preparation and uses of Magaldrate and magnesium carbonate.
4. Explain the clinical application, hazards and precautions of radiopharmaceuticals.

II. Write notes on:

(6 x 5 = 30)

1. Write a note on complexometric titrations.
2. Discuss the principle involved in the assay of sodium chloride by Mohr's method.
3. Explain on physiological role of copper and chromium.
4. Describe the limit test for chlorides and sulphates in potassium permanganate.
5. Explain the concept of Redox titration.
6. Briefly explain the preparation and uses of Nitrous oxide and Helium.
