

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

[PHARMD 0423]

APRIL 2023

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 principle involved in Complexometric titration. Discuss about metallochromic indicators.
2. Summarize the principle and procedure involved in limit test for Arsenic with neat labeled diagram of Gutzeit apparatus.
3. Write in detail about the sources of impurities in Pharmaceutical substances. Explain the method and principle involved in the limit test for chloride.
4. Describe the functions of Electrolytes in physiological acid - base balance and in Electrolyte replacement therapy. List out the composition and uses of Oral rehydration salt.

II. Write notes on:

(6 x 5 = 30)

1. Explain the various steps involved in Gravimetric Analysis.
2. Explain various types of Errors and methods to minimize errors in quality control.
3. Discuss the monograph of any one antidote used for cyanide poisoning with its mechanism of action.
4. Describe about Pharmaceutical aids with suitable examples. Explain the monograph Magnesium Stearate.
5. Explain the preparation and assay of Hydrogen peroxide and Boric acid.
6. Discuss the preparation, properties, assay and uses of Ammonium chloride.
