

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

[PHARMD 0321]

MARCH 2021

Sub. Code: 3805

(OCTOBER 2020 EXAM SESSION)

PHARM. 'D' DEGREE EXAMINATION

FIRST YEAR (2009-2010 Regulation)

PAPER V – PHARMACEUTICAL INORGANIC CHEMISTRY

Q.P. Code : 383805

Time : Three hours

Maximum : 70 Marks

I. Elaborate on:

(4 x 10 = 40)

1. Explain the preparation and assay of
 - a) Aluminium hydroxide Gel.
 - b) Potassium permanganate.
2. Draw a neat diagram of Arsenic limit test apparatus & explain the procedure and principle behind it.
3. What are consumer Dental products? Explain dental carries and write the role of fluorides against it. Give the preparation, properties, assay, storage and medicinal uses of Sodium fluoride.
4. What is non-aqueous titration? Explain the types of solvents involved in non-aqueous titration with examples.

II. Write notes on:

(6 x 5 = 30)

1. a) Name the inorganic compounds used as antidote for Cyanide poisoning. Justify your answer.
b) Define Expectorant, Sedative and Hypnotics.
2. Explain the procedure and principle behind the limit test for Iron.
3. Write the method of preparation, properties, assay and medicinal uses of ZnCl₂.
4. Define Essential and Trace ions. Write about the physiological role of Iron.
5. Write a detailed note on Povidone-Iodine as antimicrobials.
6. Explain the assay of Calcium gluconate with suitable reaction.
