

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

[BPHARM 1022]

OCTOBER 2022
(MARCH 2022 EXAM SESSION)

Sub. Code: 2007

B.PHARMACY DEGREE COURSE (SEMESTER EXAMINATIONS)
PCI Regulation 2017 – SEMESTER I
PAPER IV – PHARMACEUTICAL INORGANIC CHEMISTRY
Q.P. Code: 562007

Time: Three hours

Maximum: 75 Marks

I. Elaborate on: Answer any TWO questions. (2 x 10 = 20)

1. Write the Principle and reaction involved in limit test for Iron and Sulphate.
2. Define Antidote with example. Give the Preparation, Assay and uses of sodium thiosulphate.
3. Define Buffer, Buffer capacity and calculation methods for adjusting Isotonicity.

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

1. What are the types of impurities?
2. Add a note on Zinc eugenol cement.
3. Write a note on combination of Antacid.
4. Briefly discuss about Physiological role of electrolytes in Acid base balance.
5. Explain the Swelling power in Bentonite.
6. Give the Preparation, Assay and Uses of Sodium bicarbonate.
7. Discuss the ideal properties in Antacids.
8. Give the Preparation, Assay and Uses of Chlorinated lime.
9. Brief note on Sodium Iodide ¹³¹ radioisotopes.

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

Define the following with an example:

1. Expectorants.
2. Emetics.
3. Haemintinics.
4. Antimicrobial agents.
5. Acidifiers.

Give reasons for the following:

6. Alcohol in Modified Limit test for Chloride and Sulphate.
7. Silver nitrate in the limit test for Chloride.
8. Formaldehyde in the Assay of Ammonium chloride.
9. How does Iodine act as Disinfectant?
10. Replacement of Sodium citrate in Oral rehydration salt.
