

**B.PHARM. DEGREE EXAMINATION
FIRST YEAR
PAPER I – PHARMACEUTICAL INORGANIC CHEMISTRY**

Q.P. Code: 564251

Time: Three hours

Maximum: 100 Marks

I. Elaborate on: (2 x 20 = 40)

1. a) Define Saline Cathartics. Explain the method of preparation and assay of milk of magnesia.
b) Define Antimicrobial and classify on the basis of mechanism of action. Discuss the method of preparation and assay of Hydrogen peroxide and Silver nitrate.
2. a) Define Medicinal gases. Write the preparation and assay of oxygen and helium gases.
b) Define antidote. Write the preparation and assay of sodium nitrite and charcoal.

II. Write notes on: (8 x 5 = 40)

1. Write about the electrolytes used in the acid-base therapy with examples. Write the preparation and assay of any two electrolytes.
2. Write the preparation, identification tests and assay of compound sodium lactate injection.
3. Differentiate between purified water and water for injection and write the tests made for those.
4. Write short notes on Pharmacopoeia.
5. Define and explain the physiological role of some trace ions.
6. Note on combinations of antacid therapy. Give the preparation, identification tests and assay of calcium carbonate.
7. Explain the principle, procedure involved in the modified limit test for sulphate.
8. Define respiratory stimulant. Give the method of preparation and assay for the compound from it.

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

1. Define the terms Hypernatremia and Hyperkalemia, how will you treat this condition?
2. What are the primary and secondary standard solutions?
3. Define complexometric titration with examples.
4. Define and write the types of limit test.
5. Discuss the physiological role of zinc and copper.
6. Give the molecular formula and uses for the following:-
i) Amphojel ii) Baking soda.
7. Explain the use of thioglycollic acid in the limit test for iron.
8. Write the identification test for Ammonium and Chloride.
9. Write the principle and reaction involved in the limit test for chloride.
10. What are the characters of an ideal antacid?