

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

[BPHARM 0522]

**MAY 2022
(FEBRUARY 2022 EXAM SESSION)**

Sub. Code: 4251

**B. PHARMACY DEGREE EXAMINATION
FIRST YEAR – (NON-SEMESTER)
PAPER I – PHARMACEUTICAL INORGANIC CHEMISTRY
*Q.P. Code: 564251***

Time: Three hours

Answer ALL questions

Maximum: 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Write in detail about Radiopharmaceuticals and its application.
2. Give the method of preparation, properties, storage condition and uses of
 - a) Boric acid
 - b) Copper Sulphate

II. Write notes on:

(8 x 5 = 40)

1. Acid neutralizing capacity of Antacids.
2. Electrolytes used in acid – base therapy.
3. Discuss about the preparation of primary and secondary standard solution.
4. Detail about the source and types of Impurities.
5. Assay of Potassium chloride by Mohr's method.
6. Oral rehydration therapy.
7. Define Adsorbents with examples
8. Define Protective. Give the preparation and assay of Calamine and Dimethicone.

III. Short answers on:

(10 x 2 = 20)

1. Mechanism of action of Astringents.
2. Note on Antioxidants with examples.
3. Write the molecular formula and uses for Magaldrate and Dimercaprol.
4. What are the limit tests?
5. Write the storage condition of Carbon di oxide .
6. Write the use and composition present in Gelusil.
7. Discuss the principle involved in the assay of Calcium gluconate.
8. What are sclerosing agents?
9. Write the preparation of potassium acetate.
10. Note the difference between Chelating and Sequestering agents with an example.
