

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

**[B.PHARM 0524]**

**MAY 2024  
(FEBRUARY 2024 EXAM SESSION)**

**Sub. Code: 4251**

**B.PHARMACY DEGREE COURSE (NON-SEMESTER EXAMINATIONS)**

**FIRST YEAR (Regulation 2009-2010)**

**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. Define radio activity. How do you measure radioactivity and explain the storage condition precautions to be followed when handling radioactive substances.
2. What are anti microbials? Give the method of preparation, properties, assay, storage conditions and uses of chlorinated lime.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Limit test for iron.
2. Silicone polymers.
3. Preparation, properties and uses of selenium sulphide.
4. Physiological acid base balance and its importance.
5. What are antidotes? Give the preparation, assay and uses of sodium nitrite.
6. Solutions of iodine.
7. Dimercaprol and penicillamine.
8. Pharmacopoeia and monograph.

**IV. Short answers on:**

**(10 x 2 = 20)**

1. What are expectorants and sedatives? Give examples.
2. Write the assay of hydrogen peroxide.
3. Give the identification test for zinc and carbonate.
4. Define radio isotopes.
5. Write the formula of any two antacids.
6. Define isotonicity.
7. Write the storage condition of nitrogen.
8. What is the use of borosilicate glass containers in the limit test for Lead?
9. Define anti caries agent and give example.
10. Define normality and molarity.

\*\*\*\*\*