

Roll No.....

Total No. of Printed Pages: [01]

Total No. of Questions: [13]

**B. Pharmacy (Semester – 1<sup>st</sup>)**  
**PHARMACEUTICAL INORGANIC CHEMISTRY**  
**Subject Code: BP104T**  
**Paper ID: [17170104]**

**Time: 03 Hours**

**Maximum Marks: 75**

**Instruction for candidates:**

1. Section A is compulsory. It consists of 10 parts of two marks each.
2. Section B consist of 9 questions of 5 marks each. The student has to attempt any 7 questions out of it.
3. Section C consist of 3 questions of 10 marks each. The student has to attempt any 2 questions.

**Section – A**

**(2 marks each)**

- Q1. Attempt the following:
- a) Define Buffer Capacity
  - b) Define Half life
  - c) Define Expectorant with example
  - d) Give the structure of Calcium gluconate and its use
  - e) Define Isotonicity
  - f) Write the formula for Seignette salt and its use
  - g) Define Cathartics with examples
  - h) Give the preparation for Hydrogen Peroxide
  - i) In limit test for sulphates why small quantity of potassium sulphate used.
  - j) Give two properties of Gamma radiations

**Section – B**

**(5 marks each)**

- Q2. Explain limit test for Chlorides.
- Q3. Give the Preparation and Assay of Sodium thiosulphate.
- Q4. Describe the mechanism of Antimicrobials
- Q5. Write a note on role of fluoride in the treatment of dental caries
- Q6. Define Antacid with examples. Give the ideal properties of Antacids
- Q7. Write a short note on measurement of radioactivity
- Q8. Give the formula for ORS. Discuss its importance
- Q9. Describe the Preparation and Assay of Ammonium Chloride
- Q10. Give an account of Emetics

**Section – C**

**(10 marks each)**

- Q11. Define Limit test. Explain in detail the limit test for Arsenic along with equations and neat labeled diagram.
- Q12. Write short note on a) Haematinics b) Sources and types of impurities. (4+6)
- Q13. Define Electrolytes. Discuss in detail functions of major physiological ions in electrolytes.