



[LH 4251]

AUGUST 2015

Sub. Code: 4251

**B.PHARM. DEGREE EXAMINATION**

**FIRST YEAR**

**PAPER I – PHARMACEUTICAL INORGANIC CHEMISTRY**

*Q.P. Code: 564251*

**Time : Three Hours**

**Maximum : 100 marks**

**Answer ALL questions**

**I. Essay:**

**(2 x 20 = 40)**

1. a) Define Limit test. Write the principle involved in the Limit test for Arsenic.  
b) Explain about source and types of impurities with examples.
2. a) Explain the properties of Alpha, Beta and Gamma Rays.  
b) Explain the various methods employed for the measurement of radio activity.  
c) What are the clinical applications of Radio isotopes?

**II. Short notes :**

**(8 x 5 = 40)**

1. Explain in detail the preparation of primary and secondary standard solutions.
2. Classify topical agents with examples.
3. Write a note on acid neutralizing capacity of antacids.
4. Write the test for purity and assay of Calamine.
5. What are Saline cathartics? Give the preparation of Magnesium sulphate?
6. Explain the properties and assay of Boric acid
7. Explain about physiological acid-base balance.
8. Write short notes on helium gas.

**III. Short answers:**

**(10 x 2 = 20)**

1. Define normality and ORS.
2. Mention examples for sedative and expectorant.
3. What is radio opaque contrast medium?
4. Define Ligands. Give examples.
5. List the official compounds of sodium and give its uses.
6. Define Hyponatremia.
7. Mention examples of dentifrices and anti- caries agent.
8. What are the reagents used in Iron Limit Test?
9. Define Osmotic laxative. Give example.
10. What are the medicinal uses of selenium sulphide?

