

(LD 4251)

AUGUST 2013

Sub Code: 4251

FIRST B.PHARM. EXAM

Paper I – PHARMACEUTICAL INORGANIC CHEMISTRY

*Q.P. Code: 564251*

Time: Three hours

Maximum: 100 marks

**I. Elaborate on:**

**(2X20=40)**

1. a) Explain the principle and procedure involved in the limit test for lead.  
b) Write in detail the preparation, properties, identification tests, assay and uses of oxygen.
2. a) Define and classify antacids. Explain the method of preparation, assay and uses of calcium carbonate.

b) What are the saline cathartics and write their mechanism of action.

Explain the method of preparation and assay of magnesium sulphate.

**II. Write Short Notes on:**

**(8 x 5 =40)**

1. Define radiopharmaceuticals. Write about the diagnostic and therapeutic applications of radioisotopes.
2. Explain about Indian Pharmacopoeia and monograph with examples.
3. Write the principle involved in the assay, method of preparation and uses of boric acid.
4. Write a short note on the electrolytes used for replacement therapy.
5. Write the structure and applications of dimercaprol and penicillamine.
6. Write about astringents. Describe the preparation and assay of zinc sulphate.
7. Write a note on dental products and describe the role of fluorides as anticaries agent.
8. What are expectorants? Write the preparation and assay of ammonium chloride.

**III. Short Answers:**

**(10 x 2 =20)**

1. Write a note on radioopaque contrast media.
2. Define sedatives with examples.
3. Write about adsorbents and protectives with examples.
4. How is acid neutralising capacity of aluminium hydroxide tested?
5. Define antidotes with examples.
6. Write about physiological role of potassium.
7. Write about primary and secondary standards with examples.
8. Write a note on antioxidants with examples.
9. What are pH indicators?
10. Write about solutions of iodine.

\*\*\*\*\*