

(LK 4251)

FEBRUARY 2017

Sub Code: 4251

**B.PHARM. EXAMINATION**  
**FIRST YEAR**  
**PAPER I – PHARMACEUTICAL INORGANIC CHEMISTRY**

*Q.P. Code: 564251*

**Time: Three hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. a) What are the sources of impurities in pharmaceutical substances? Explain the principle for the limit test for sulphates.  
b) What are antimicrobials? Write the preparation and assay of chlorinated lime and boric acid.
2. a) What are gastrointestinal agents? Classify them with examples. Describe about qualities of an ideal antacid and combination therapy of antacids.  
b) Write about theory of coordination compounds with special reference to application in pharmacy and pharmaceutical analysis.

**II. Write notes on:**

**(8 x 5 = 40)**

1. What are medicinal gases? Write properties and assay of nitrous oxide.
2. What are radiopharmaceuticals? Write their clinical applications.
3. What are dentrifices? Write the preparation and assay of calcium carbonate.
4. Write about physiological acid-base balance and its importance.
5. Discuss about the development of periodic table on the modern concept of atomic structure and its importance.
6. What are saline cathartics? Write the preparation and assay of magnesium sulphate.
7. Write the method of preparation, assay and uses of ferrous sulphate.
8. Write the principle involved in the limit test for lead.

**III. Short answers on:**

**(10 x 2 = 20)**

1. Write about protophilic solvents with examples.
2. Give the physiological role of potassium.
3. Write a note on complexometry titration with examples.
4. Define acidifiers with examples.
5. Write about radio opaque contrast medium.
6. Write the structure and uses of dimercaprol.
7. Define antidotes with examples.
8. Write a note on alum.
9. Define sclerosing agents with examples.
10. Write about calamine.

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