



(LI 4251)

**FEBRUARY 2016**

Sub Code: 4251

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

*Q.P. Code: 564251*

**Time: Three hours****Maximum: 100 Marks****I. Essays:****(2 x 20 = 40)**

1. a) Write briefly about theory of Co-ordination compounds.  
b) Write the Application of Co-ordination compounds in pharmacy.  
c) Write notes on 10-Phenanthroline and Penicillamine.
2. a) What are Antacids? Give the classification of Antacids?  
b) What are the qualities of an ideal Antacid?  
c) Give the preparation, identification tests, assay and medicinal uses of dried Aluminium Hydroxide Gel.

**II. Short notes:****(8 x 5 =40)**

1. Explain the principle of Arsenic limit test with reactions.
2. Give the properties and uses of Magnesia.
3. Complete and balance the following equations:
  - a.  $C_4H_2FeO_4 + H_2SO_4 \rightarrow$
  - b.  $H_2S + SO_2 \rightarrow$
  - c.  $SrO + HCl \rightarrow$   
 $FeCl_3 + NaF \rightarrow$
  - e.  $Na_2HPO_4 \rightarrow$
4. Write the preparation, properties, identification, assay and uses of Hydrogen peroxide.
5. Write short notes on Pharmacopoeia and Monograph.
6. Write the properties and assay of Chlorinated lime.
7. Explain about the preparation, assay and uses of the following:  
(a) Oxygen, (b) Sodium Citrate
8. What are the official preparations of Calcium? Give the assay and uses of any one compound

**III. Short answers:****(10 x 2 =20)**

1. Define Molarity.
2. Define Amphiprotic solvents with examples.
3. Write any two precautions to be observed while handling radio active materials.
4. Give the applications of Sodium Metabisulphite.
5. Mention examples for adsorbent and saline Cathartic.
6. Define Anti caries agents.
7. What are the official compounds of Iron?
8. Define Sclerosing agent. Give examples.
9. Mention the physiological role of Calcium and Potassium.
10. Define chelating agents with examples.

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