



[KY 757]

Sub. Code: 4251

**FIRST B.PHARM. DEGREE EXAMINATION**

(Regulations 2009-2010) Candidates Admitted from 2009-10 onwards

**Paper I – PHARMACEUTICAL INORGANIC CHEMISTRY**

*Q.P. Code : 564251*

**Time : Three hours**

**Maximum : 80 marks**

**I. Essay Questions :** Answer any **TWO** questions

**(2 x 20 = 40)**

1. 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.
2. a) Explain the properties of Alpha, Beta and Gamma Rays.  
b) How are Radioactivity measured?  
c) What are the clinical applications of Radio isotopes?
3. a) Explain about co-ordination compounds with suitable examples. Give the application of EDTA (Ethylene Diamine Tetra acetic Acid) in pharmacy and analysis.  
b) Explain the role of Electrolytes in Acid base therapy.  
c) Write the preparation, properties, identification tests and assay of compound sodium lactate injection.

**II. Write Short Notes :** Answer any **SIX** questions.

**(6 x 5 = 30)**

1. Explain the principle of Arsenic limit test with reactions.
2. Give difference between purified water and water for injection. What are the tests done for these?
3. Give the properties and uses of Magnesia.
4. What are Saline cathartics? Give the preparation of Magnesium sulphate.
5. Write the tests for purity and assay of Calamine.
6. Write the properties and assay of chlorinated lime.
7. Explain about physiological acid-base balance.
8. What are the official preparations of calcium? Give the assay and uses of any one compound

**III. Short Answers:** Answer any **FIVE** questions.

**(5 x 2 = 10)**

1. Give the molecular formula for a) Ammonia Alum b) Talc.
2. Complete and balance the following equations.  
a)  $\text{KMnO}_4 + \text{KI} + \text{H}_2\text{SO}_4 \rightarrow$   
b)  $\text{Na}_2\text{S}_2\text{O}_3 + \text{HCl} \rightarrow$
3. What are the medicinal uses of selenium sulphide?
4. Give the applications of sodium metabisulphite.
5. What are the reagents used in Iron Limit Test?
6. How Sodium Chloride injection is assayed?
7. What are the official compounds of Iron?

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