

[Total No. of Questions - 8]  
(2063)

[Total No. of Printed Pages - 2]

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**B. Pharmacy 2nd Semester Examination**  
**Pharmaceutical Chemistry (Inorganic Chemistry)**

2

**Time : 3 Hours**

**Max. Marks : 90**

*The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary/continuation sheet will be issued.*

**Note :** Attempt any five questions.

1. Give the occurrence, properties, reaches and important compounds of zinc. (18)
2. Write the principle and method for assay of ammonium chloride. Also give its methods of preparation and uses. (18)
3. Name I.P. official compounds of Iron alongwith their preparations. Write a detailed account of  
(i) Ferrous fumarate  
(ii) Ferrous sulphate  
(iii) Ferrous gluconate. (18)
4. Give limits of Impurity of heavy metals in Ayurvedic preparations. Discuss different methods for quantitation of heavy metals in Ayurvedic preparations. (18)
5. Write the methods of preparation, properties and uses of the following:  
(i) Calcium gluconate

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- (ii) Mercuric chloride
  - (iii) Magnesium sulphate
  - (iv) Sodium thiosulphate **(4×4½)**
6. Classify various titrimetric methods of analysis. Give a detailed account of complexometric titrations. **(18)**
7. Discuss various steps involved in Gravimetric analysis. Also give assay of magnesium sulphate by gravimetry. **(18)**
8. Write short notes on:
- (i) Atomic configuration
  - (ii) Reactivity of metal. **(9,9)**