

QP CODE: 111006 (New Scheme)

Reg. No: .....

**First Year B.Pharm Degree Supplementary Examinations  
December 2017****PHARMACEUTICAL CHEMISTRY - I****(Inorganic & Physical Chemistry)****(2012 - Scheme)****Time: 3 Hours****Total Marks: 100**

- Answer all Questions.
- Write equations wherever necessary.

**Essay****(3x10=30)**

1. Explain the preparation and assay of selenium sulphide and boric acid. Mention their pharmaceutical uses
2. What is electrolyte combination therapy. How do you prepare calcium gluconate with reactions.
3. Explain the significance of acid neutralizing capacity. Give the preparation, assay and drawback of magnesium hydroxide as an antacid.

**Short notes****(14x5=70)**

4. The preparation and uses of kaolin and titanium dioxide
5. The principle of iron limit test and give the reason for adding each reagent
6. What are dental caries and how are they treated.
7. What are the uses of medicinal nitrogen and how it is made.
8. Explain the physiological role of iodine and iron
9. How do you prepare and assay ferrous sulphate. Give the chemical reactions
10. Explain any two important pharmaceutical aids giving examples
11. Handling and storage conditions of radiopharmaceuticals
12. What are inorganic antidotes and inorganic sedatives. Give examples and their specific medicinal uses
13. Define and give the importance of refractive index and optical rotation in pharmaceutical chemistry
14. Partition coefficient and its importance in pharmacy
15. How can the reagents and raw materials used in the manufacture of drugs can act as a source of impurity. Explain
16. The chemical formula and uses of chlorinated lime and zinc undecenoate
17. What are respiratory stimulants. Give chemical formula and uses of one respiratory stimulant.

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