

**QP CODE:101006 (Old Scheme)**

**Reg.No: .....**

First Year B.Pharm Degree Supplementary Examinations, July 2015

**(2010 - Scheme)**

**PHARMACEUTICAL CHEMISTRY - I**

**(Inorganic & Physical Chemistry)**

**Time: 3 Hours**

**Total Marks: 100**

- Answer all Questions.
- Write equations wherever necessary.

**Essay**

**(3x10=30)**

1. Explain the physiological role of iron and discuss its various preparations.
2. Elaborate on the theory and application of co-ordination compound with details on EDTA and penicillamine.
3. Classify topical agents and discuss preparations and uses of hydrogen peroxide and zinc chloride.

**Short notes**

**(14x5=70)**

4. Radio pharmaceutical preparations.
5. Mention the preparation, assay and use of ammonium chloride.
6. Discuss the acid neutralizing capacity of aluminium hydroxide gel and add a note on dimethicone.
7. Explain the physiological role of iodine and explain its preparations.
8. Explain the assay of nitrogen.
9. Sodium compounds used as pharmaceutical aids.
10. Describe physiological acid base balance and its importance.
11. Explain talc and zinc oxide.
12. Narrate the method of preparation, assay and uses of ferrous sulphate.
13. Explain refractive index and dipole moment.
14. Mention the adsorption isotherms and list out the factors influencing adsorption.
15. What is partition coefficient and discuss its effect on biological activity.
16. Discuss on the calcium compounds used as dentifrices.
17. Narrate the method of preparation, uses and the assay of sodium fluoride.

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