

First Year B.Pharm Degree Examinations, August 2016

**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. What are the sources of impurities in pharmaceutical substances. Discuss on the principle and reactions involved in the limit test for arsenic and chloride.
2. Discuss in detail on the theory of co-ordination compounds with its applications to the field of pharmacy. Add a note on EDTA and dimercaprol.
3. What do you mean by electrolyte combination therapy and oral rehydration salt. Add a note on the electrolytes used in acid-base therapy giving emphasis to any two compounds.

**Short notes**

**(14x5=70)**

4. Radio active iodine-131.
5. Assay and preparation of ammonium chloride.
6. Explain acid neutralizing capacity with examples.
7. Saline cathartics.
8. What is an astringent. Explain zinc chloride.
9. Physiological role of sodium and chloride.
10. Method of preparation, storage conditions and uses of Nitrous oxide
11. Explain the official solutions of Iodine.
12. Water for injection.
13. Expectorants
14. Antidotes
15. Physiological role of copper.
16. Elaborate on the ferrous compounds used as trace ions.
17. Talc and dimethicone.