

First Year B.Pharm Degree Supplementary Examinations - March 2013

**PHARMACEUTICAL CHEMISTRY - I**  
**(Inorganic & Physical Chemistry)****Time: 3 Hours****Total Marks: 100**

- Answer all Questions.
- Write equations wherever necessary.

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

1. Define limit test. Explain the limit test for arsenic with a neat labeled diagram. Add a note on importance of limit test.
2. Explain the method of preparation, assay and uses of nitrous oxide.
3. Name the major physiological ions and their role in the body. Add a note on physiological acid-base balance.

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

4. Define antidotes. Mention the methods of preparation and importance of charcoal in poisoning.
5. Explain the preparation and assay of boric acid with reactions.
6. Define antacids. Discuss the qualities of ideal antacid.
7. Discuss about adsorbents and protective with examples.
8. What are anti-caries agents. Explain the role of fluoride in preventing dental caries.
9. Describe the assay of zinc chloride with its uses.
10. Define expectorants. Mention preparation of potassium iodide.
11. What are pharmaceutical aids. Classify it with examples.
12. Explain the theory of co-ordination compounds with examples.
13. Discuss the preparation and assay of magnesium hydroxide.
14. Define colligative properties with examples. Derive the equation of relative lowering of vapour pressure.
15. Define adsorption. What are the factors influencing adsorption.
16. Define the following terms:
  - Parachor
  - Refractive Index
  - Dipole moment
  - Polarized light
  - Osmosis
17. Explain kinetic theory of gases.

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