

QP CODE: 101006 (Old Scheme)

Reg. No:

First Year B.Pharm Degree Supplementary Examinations June 2017

PHARMACEUTICAL CHEMISTRY - I
(Inorganic & Physical Chemistry)

(2010 - Scheme)

Time: 3 Hours

Total Marks: 100

- Answer all Questions.
- Write equations wherever necessary.

Essay

(3x10=30)

1. Describe in detail about the sources of impurities in pharmaceutical substances.
2. Explain the method of preparation, assay and uses of aluminum hydroxide gel and boric acid.
3. Define limit tests. Explain the principle and procedure involved in the limit test for iron with equation.

Short notes

(14x5=70)

4. Explain an Indian pharmacopoeia and monograph with example.
5. Physiological acid base balance and its importance.
6. What are respiratory stimulants. Explain about ammonium carbonate.
7. What are the uses of following inorganic compounds:-
 - sodium thiosulphate • potassium iodide • calamine
 - bleaching powder • iron dextran injection
8. Explain the physiological role of manganese and chromium.
9. Explain partition co-efficient and its applications in pharmacy.
10. What is adsorption isotherm. Explain Freundlich adsorption isotherm.
11. Explain the deviation from ideal behavior of gases.
12. Define optical activity and explain the working of polarimeter.
13. Describe the principle and procedure involved in the assay of oxygen.
14. Explain the pharmaceutical applications of 1, 10 phenanthroline and dimercaprol.
15. Explain the acid neutralizing capacity of antacids.
16. Aqueous iodine solution and povidone iodine solution.
17. What is radioactivity. Explain radio opaque contrast media.
