

First Year B.Pharm Degree Supplementary Examinations , April 2015

(2012 - Scheme)

PHARMACEUTICAL CHEMISTRY - I

(Inorganic & Physical Chemistry)

Time: 3 Hours

Total Marks: 100

- Answer all Questions.
- Write equations wherever necessary.

Essay

(3x10=30)

1. What are medicinal gases and assay procedure adopted for oxygen & nitrous oxide.
2. Define and state the factors influencing adsorption. Add a note on the various adsorption isotherms in detail.
3. Explain the method of preparation, assay and uses of Aluminium Hydroxide gel and Sodium bicarbonate

Short notes

(14x5=70)

4. Explain the principle for the limit test for iron.
5. How is the radio activity measured and what are the units utilized to denote radio activity.
6. Acidifiers.
7. Enumerate the various adsorbents and protectives used and discuss on light kaolin.
8. Method of preparation, assay and uses of selenium sulphide.
9. Discuss on the physiological role of sodium and potassium.
10. Oral Rehydration Salt - Explain.
11. Antidotes.
12. Describe a method to detect the elevation of boiling point - A colligative property.
13. Assay of Hydrogen Peroxide
14. Narrate the sources of impurities in pharmaceutical substances.
15. What are the essential trace ions necessary for the normal functioning of the body
16. List out the preparations of iron used in medicine by giving emphasis to Iron Dextran injection.
17. What are the physical properties to be observed in the liquid state. Add a brief note on refractive index.