

**QP CODE:111006 ( New Scheme)**

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

First Year B.Pharm Degree Supplementary Examinations, February 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. Explain the significance of physiological acid base balance. What are the compounds used for electrolyte replacement therapy. Discuss on calcium gluconate.
2. Classify topical agents. Explain in detail on the assay, identification tests, test for purity of hydrogen peroxide and selenium sulphide.
3. Define trace ions. Add a note on the physiological role of iron. Explain the preparation and assay of ferrous sulphate

**Short notes**

**(14x5=70)**

4. Describe on respiratory stimulant and expectorant.
5. Applications of co-ordination compounds in pharmaceutical analysis.
6. Astringents.
7. Mode of preparation, assay and test for purity of sodium bi carbonate.
8. Acidifiers.
9. Explain on radio active cobalt-58.
10. How do you perform the limit test for heavy metals.
11. Monograph.
12. Assay, preparation and identification tests for sodium fluoride.
13. Iodine and silver compounds having anti microbial activity.
14. Official formulations of trace ions.
15. What is the physiological role of calcium and bicarbonate.
16. Sodium compounds used for acid-base therapy.
17. Hazards and precautions of radio pharmaceuticals.

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