

# **2012 Scheme**

**QP CODE: 111006**

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

## **First Year B. Pharm Degree Supplementary Examinations December 2024**

### **Pharmaceutical Chemistry - I**

**(Inorganic & Physical Chemistry)**

**Time: 3 Hours**

**Total Marks: 100**

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *Write equations wherever necessary.*

#### **Essay**

**(3x10=30)**

1. Describe the principle, procedure and importance of limit test for lead.
2. Explain the method of preparation, uses and assay of boric acid and calcium gluconate.
3. Explain the different sources of impurities in pharmaceutical substances.

#### **Short notes**

**(14x5=70)**

4. Explain the principle involved in limit test for arsenic.
5. What are radiopharmaceutical. Explain the storage, handling and clinical applications of Cobalt-58 ( $\text{Co}^{58}$ )
6. What are acidifiers. Explain the preparation of any one.
7. Classify and discuss about the ideal qualities of antacids with examples.
8. Write about saline cathartics with examples.
9. Explain the preparation, test for purity and uses of selenium sulphide.
10. Brief note on dental products.
11. Physiological role of sodium and potassium.
12. Explain the assay and uses of ferrous sulphate.
13. Explain the preparation, storage condition and uses of oxygen and nitrogen.
14. Write about pharmaceutical aids with examples.
15. Brief note on sedative with example.
16. Give the applications of co-ordination compounds in pharmacy and pharmaceutical analysis.
17. Explain the chemisorption and the types of adsorption isotherms.

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