

# 2012 Scheme

QP CODE: 111006

Reg. No: .....

## First Year B. Pharm Degree Supplementary Examinations August 2022

### 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 and procedure involved in the limit test for chlorides and sulphates.
2. Explain the physiological roles of sodium, potassium, calcium and chlorides. Add a note on electrolyte combination therapy.
3. Define antacids. Classify them with examples. Explain the preparation and assay of magnesium hydroxide.

#### Short notes

(14x5=70)

4. Explain the principle of limit test for iron with chemical reactions.
5. Name two official compounds of calcium and describe the method of preparation of any one of them with its uses.
6. Give the preparation and assay of selenium sulphide.
7. What are the factors influencing adsorption
8. Explain Gutzeit's apparatus with a neat labelled diagram.
9. Write the method of preparation and assay of nitrous oxide.
10. Discuss the physiological role of iron.
11. Discuss the importance of quality control in pharmaceuticals.
12. Give the preparation and assay of sodium bicarbonate.
13. Explain the preparation and uses of potassium citrate.
14. Mention the sources of impurities in pharmaceuticals.
15. Saline cathartics with an example.
16. Define acidifiers with examples. Discuss the method of preparation and assay of ammonium chloride.
17. What are expectorants. Write the method of preparation of ammonium carbonate.

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