

2012 Scheme

QP CODE: 111006

Reg. No:

First Year B. Pharm Degree Supplementary Examinations January 2023

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. Explain Raoult's law. Derive an expression for Raoult's law. Explain ideal solution and deviation from Raoult's law. (5+5)
2. Give the preparation, clinical application, dosage, hazards and storage of iodine - 131 (I^{131})
3. Give the preparation, properties, assay, storage and uses of ferrous sulphate.

Short notes

(14x5=70)

4. Explain the acid neutralizing capacity of an antacid. Give preparation and uses of aluminium hydroxide gel.
5. What are astringents. Give the preparation, assay, storage and uses of zinc chloride.
6. Comment on the role of fluorides as anti caries agents. Give the preparation and uses of sodium fluoride.
7. Enumerate the composition and medicinal uses of oral rehydration salt.
8. Give the preparation, properties, storage and uses of nitrous oxide.
9. Explain sodium methyl paraben and sodium lauryl sulphate and mention its uses.
10. Enumerate the composition of compound sodium chloride injection and mention its uses.
11. What are sedatives. Give the identification test, storage and uses of potassium bromide.
12. Explain the theory of coordination compounds and mention the uses of EDTA & 1,10 Phenanthroline.
13. Explain the physiological role of iron and chromium.
14. Give the identification test, test for purity and uses of Iron and ammonium citrate.
15. Explain silicone polymers and dimethicone.
16. Give the preparation, properties, assay and uses of Boric acid.
17. Give the identification test, storage and uses of sodium citrate.
