

QP Code: 124006

Reg. No.....

**First Semester B. Pharm Degree Regular/Supplementary  
Examinations April 2024**

**Pharmaceutical Inorganic Chemistry  
(2017 Scheme)**

Time: 3 Hours

Max. Marks: 75

- 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
- Draw table/diagrams/flow charts wherever necessary

**Essay**

(2x10=20)

1. Explain the principle, chemical reaction and apparatus used in the limit test of arsenic.
2. Define antimicrobial agents. Write the mechanism of action of inorganic antimicrobial agents. Add a note on iodine and its preparation.

**Short Notes**

(7x5=35)

3. Describe the different sources of impurities in pharmaceuticals.
4. Methods of preparation, properties and uses of Boric acid.
5. Explain the preparation, assay and uses of ammonium chloride.
6. Write the preparation of aluminium hydroxide gel and magnesium sulphate.
7. Define expectorants with suitable examples, explain their properties.
8. Explain the properties of alpha, beta and gamma rays.
9. Explain the pharmaceutical application of radioactive substance.

**Answer Briefly**

(10x2=20)

10. Define antacid with example.
11. Ideal properties of antacid.
12. Reason for administering antacids as combination of antacids.
13. Define buffer capacity.
14. Role of fluoride in dental carries.
15. Write a note on zinc eugenol cement.
16. Define cathartics with examples.
17. Define half life of radioisotopes.
18. Write the preparation of sodium thiosulphate.
19. Write the chemical formula of
  - a) Sodium nitrate
  - b) Sodium bicarbonate
  - c) Magnesium hydroxide
  - d) Calcium carbonate

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