

D 50571

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Name.....

Reg. No.....

**FIFTH SEMESTER (CBCSS—UG) DEGREE EXAMINATION
NOVEMBER 2023**

Chemistry

CHE 5B 06—INORGANIC CHEMISTRY—III

(2019 Admission onwards)

Time : Two Hours

Maximum : 60 Marks

Section A (Short Answers)*Answer questions up to 20 marks.**Each question carries 2 marks.*

1. How does phosphate interfere in the analysis of group 3 radicals ?
2. Explain the term microanalysis.
3. Discuss the structure of XeF_4 molecule.
4. Which is the most stable interhalogen compound among IF, IBr and BrCl ?
5. Why noble gases are chemically inert ?
6. What are phosphonitrilic chlorides ?
7. Why are salts less soluble in liquid SO_2 than in water ?
8. Represent autoionisation of ammonia.
9. Discuss the structure and property of S_2N_2 .
10. What is acid rain ?
11. Triple R is important term in managing waste. Justify.
12. What are the four major types of medical wastes ?

(Ceiling of marks : 20)

Turn over

Section B (Paragraph)

Answer questions up to 30 marks.

Each question carries 5 marks.

13. What are the different methods of precipitate formation ?
14. Describe zone refining.
15. Give an account of pseudohalogens ? Discuss the structure of ClF_3 .
16. Give the structure of oxides and fluorides of Xenon.
17. What are silicones ? Describe its structure and application.
18. Define greenhouse effect.
19. Discuss the challenges in managing *e-waste*.

(Ceiling of marks : 30)

Section C (Essay)

*Answer any **one** questions.*

The question carries 10 marks.

20. Name two ores of Uranium. How is uranium metal obtained from its ore ?
21. Explain the sources of water pollution. What are the control measures for water pollution ?

(1 × 10 = 10 marks)