

B.Sc. DEGREE EXAMINATION, APRIL 2019
II Year IV Semester
General Chemistry-VII

Time : 3 Hours

Max.marks :60

Section A ($10 \times 1 = 10$) Marks

Answer any **TEN** questions

1. State Huckel's rule.
2. What are the reagents required for Friedal Crafts acylation reaction?
3. Write the formula of hypophosphorous acid.
4. Mention any two uses of phosphates.
5. What are amphoteric oxides?
6. Mention any two significant role of ozone.
7. Draw the structure of borazine.
8. What is an inorganic polymer?
9. What do you mean by trace metals?
10. Give the reasons for toxicity of Cd metal.
11. Write the formula of superphosphates.
12. Mention any two properties of thionyl compounds.

Section B ($5 \times 4 = 20$) Marks

Answer any **FIVE** questions

13. Explain the concept of directive influence of functional groups.
14. Write the role of phosphorous in NPK fertilizer.
15. Discuss the allotropy nature of oxygen group elements.
16. Explain the synthesis and applications of borazine polymer.
17. What is toxicity? Are Hg and Pb toxic? Give their adverse effects.
18. Discuss the mechanism of benzene sulphonation reaction.
19. State and explain the oxoacids of Sulphur.

Section C ($3 \times 10 = 30$) Marks

Answer any **THREE** questions

20. Write down the mechanism of Friedal Crafts Alkylation reaction.
21. Explain the preparation, properties and uses of Nitric acid and Pernitric acid.
22. Explain the preparation, properties, structure and uses of Dithionic acid.
23. Discuss the synthesis, structural aspects and applications of silicones.
24. How iron plays a significant role in the biological system? Explain with a suitable example.

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