K26FY0220 Pages: 1 Reg No:.....
Name:.....

Fourth Semester FYUGP Degree (Reg) Examination April 2026

KU4DSCCHE201 - INORGANIC CHEMISTRY II

2024 Admission onwards

Time : 1.5 hours Maximum Marks : 50

Section A

Answer any 6 questions. Each carry 2 marks.

1. What causes paramagnetism in transition elements?
2. Write the general electronic configuration of the first row transition elements?
3. what is EAN rule?
4. What are organometallic compounds. Give 2 examples.
5. What are fluorocarbons? Give examples
6. What are alloy steels? Give 2 examples
7. Name a metalloporphyrin. Name the metal present in it.
8. Mention one toxic effect of lead (Pb) in humans.

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Section B

Answer any 4 questions. Each carry 6 marks.

9. Explain the classification of interhalogen compounds
10. Write short notes on phosphorus based inorganic polymers
11. Explain electrometallurgy and hydrometallurgy
12. Draw the structure of porphyrin and explain how the structure of heme is related to it.
13. Describe the toxic effects of arsenic (As), cadmium (Cd), lead (Pb), and mercury (Hg).
14. Write short notes on the biological functions of Co, Mn and Zn ?

Section C

Answer any 1 questions. Each carry 14 marks.

15. Compare the properties of first transition series with the second and third.
16. Explain the preparation, properties, structure and bonding in ferrocene ?