

B. Sc. DEGREE END SEMESTER EXAMINATION - MARCH 2019**SEMESTER – 6: CHEMISTRY (CORE COURSE)****COURSE: 15U6CRCHE09: INORGANIC CHEMISTRY - II***(Common for Regular - 2016 Admission / Supplementary-Improvement 2015 Admissions)*

Time: Three Hours

Max. Marks: 60

Section A(Answer **all** questions. Each question carries 1mark)

1. What is smelting?
2. Give the structure of $\text{Fe}(\text{CO})_5$.
3. What is glass transition temperature?
4. Give two examples for non-ionizing solvent?
5. Higher value of BOD indicates
6. Give two examples for interhalogen compound?
7. Turbidity is measured by..... method
8. Krolls process is employed for the extraction of (1 × 8 = 8)

Section B(Answer any **six** questions. Each question carries 2 marks)

9. What is vapour phase refining?
10. Give the structure of peroxy acids of sulphur?
11. What is chalcogenic glass?
12. Explain electro positive character of iodine with suitable example?
13. What are F centres?
14. What are Zintl ions?
15. Give the significance of DO in water samples?
16. Differentiate between temporary and permanent hardness? (2 × 6 = 12)

Section C(Answer any **four** questions. Each question carries 5 marks)

17. Explain Ellingham diagram?
18. Differentiate between LNCC and HNCC?
19. Give the preparation and applications of silicones?
20. Discuss any four characteristic reactions of liquid HF as solvent?
21. Explain the structure of ZnS ?
22. Outline the preparation and uses of Borazine and Boric acid? (5 × 4 = 20)

Section D(Answer any **two** questions. Each question carries 10 marks)

23. Discuss the various defects in crystals?
24. Explain the preparation, chemical properties and bonding of diborane?
25. Discuss the different techniques employed in refining of metals?
26. Detail the water quality parameters with significance. (2 × 10 = 20)
