

Gurudas College

Internal Examination, 2020

Chemistry (Honours), Part – II

Paper: IVA (Inorganic)

F.M. – 25, Time – 2 hrs

(Answers should be brief and to the point. Each question carries five marks.)

Answer any five questions

1. “Anhydrous AlCl_3 is covalent while $\text{AlCl}_3 \cdot \text{H}_2\text{O}$ is ionic”- Explain.
2. Draw the structures of XeO_2F_2 , diborane and $(\text{SN})_4$ (any two).
3. Construct the MO diagram of O_2 or NO .
4. Why the conductivity of Ge is enhanced after adding trace amount of As to it?
5. SiCl_4 hydrolyses but CCl_4 does not --- justify.
6. Give one example each of ambidentate and polydentate ligand.
7. H_2O is liquid but H_2S is gas --- explain.
8. Give one example of disproportionation reaction.