

IAT 2023 Important chapters

Disclaimer: No-one can guarantee the accuracy of the questions, these are from our experience. However, our prediction for IAT 2022 was fairly on point.

IAT 2022 Paper analysis

Chapter	Number of Qs	Difficulty level	Our prediction
Chemical Bonding	2	Moderate	Predicted
Coordination	2	Easy to moderate	Predicted
GOC/Stereochemistry/ IUPAC nomenclature	2	Easy	
Haloalkanes	1	Easy	
Carbonyl compounds	2	Moderate to hard	Predicted
Thermodynamics	2	Moderate to hard	Predicted
Chemical kinetics	1	Moderate	Predicted
Electrochemistry	1	Easy to moderate	Predicted
Periodic properties	1	Moderate	
Solid state	1	Easy to moderate	

Overall,

Physical chemistry: 5

Inorganic chemistry: 5

Organic chemistry: 5

Here we can clearly see that the weightage for all the branches of chemistry is exactly same. Amongst the 15 questions asked in

chemistry section, all sections physical organic and inorganic account for 5 questions each.

This suggests that we should have a thorough understanding of all the topics of chemistry and we cannot leave any particular branch uncovered.

Yet, from IAT 2022 the heavy weightage chapters are:

Chemical bonding

Coordination chemistry

Thermodynamics

GOC, Stereochemistry

Aldehydes and ketones (Carbonyl Chemistry)

The important topics amongst these chapters are:

Chemical Bonding

Hybridization

Geometry

Bond Angle

Coordination compounds

Valence Bond Theory

Hybridization

Werner's theory

Crystal field theory

Coordination isomerism

Thermodynamics

Work

1st law

Internal energy

Thermodynamic equilibrium constant

Gibb's free energy

Entropy

GOC (Stereochemistry)

IUPAC Nomenclature

Hybridization in organic compounds.

Electronic effects (Inductive, resonance, hyperconjugation)

Acidity

Basicity

Projection formulas (Sawhorse, Newmann, Fischer)

Carbonyl chemistry

Alcohols

Aldehyde ketones

Amines

Oxidizing and reducing reagents

