

# **BAAT DABANEY WALE TOPICS FOR BOARD EXAMS 2025**

- 1. Quantum Numbers & Rules for Electronic Configuration Shapes of orbital**
- 2. Mass Spectrometry**
- 3. Theories of Chemical Bonding (VBT,MOT,VSEPR)**
- 4. Hybridization & intermolecular forces**
- 5. Numericals of mole Limiting & Non limiting Reactants % age yield**
- 6. Hess Law & Born Haber cycle**
- 7. Rate law, Order of Reaction & rate equation ,Mechanism of Reaction**
- 8. Potential energy diagram & determining Rate constant R**
- 9. Factor effecting equilibrium(Le-Chatelier's Principle)**
- 10.Salt hydrolysis ,Buffer solution ,Common ion Effect**
- 11.Solubility product and Precipitation Reaction,  $K_a$  &  $K_b$  Numericals**
- 12.Trends in metallic and non-metallic Behavior & trend in chemical Reactions**
- 13.Smog its Types & PAN mechanism**
- 14.Reaction of Halogen with Hydrogen, Halogen acid & Silver nitrate**
- 15.Periodicity of Properties(Electron Affinity, Electronegativity, I.E with factors)**
- 16.Free Radical substitution of Alkane ,Isomerism**
- 17.Types of Organic Chemical Reactions**
- 18..Preparation of Alkene & Reactions of Alkene**
- 19.Reactions of alkyl halides(Substitution & Elimination)**
- 20.Identification test of functional group  
(Lucas,iodoform,esterification,2,4DNPH,fehling,tollen,Carbnonate test, $AgNO_3$ )**
- 21.Oxidation & Reduction of Aldehyde ketone Carboxylic Alcohol amide**
- 22. Preparation of carboxylic Acid &  
Reactions of Carboxylic(esterification mechanism)**
- 23.Preparation of Amine Basicity of Ammonia & acidity of Alcohol**