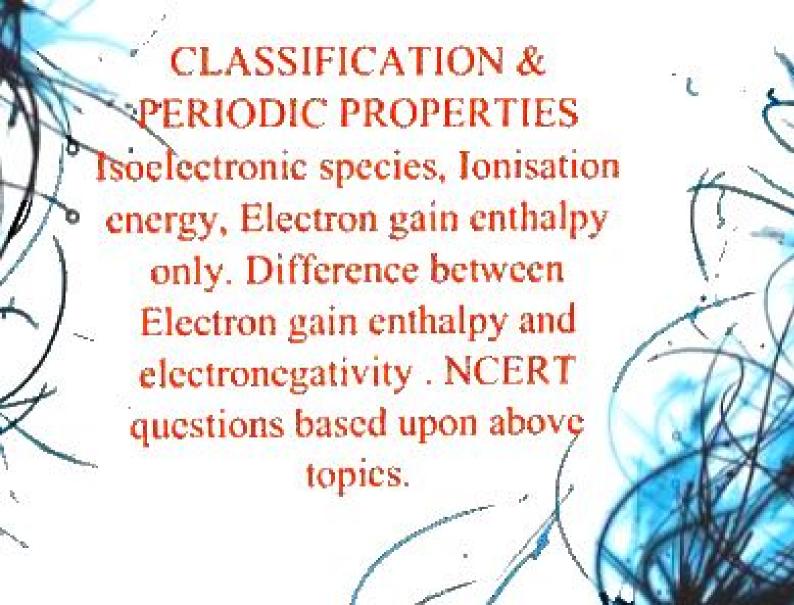
SOME BASIC CONCEPTS Empirical formula, molecular formula, Limiting agent, selected problem of mole concept, Molarity only , NCERT problems based upon stoichiometry and limiting reactant



STRUCTURE OF ATOM Rules for configurations (Cu , Cr) Numericals on deBroglie ,Heisenberg,Raydberg & energy of electron AND Rydberg

Some basic & simple properties on Quantum number. NCERT hots Question like "Why electron does not exist in nucleus "?

formula.



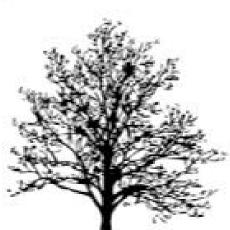
CHEMICAL BONDING

Hybridisation and structure of ethane, ethyne, SF4, ClF3, H2O, H2S, PCl5.

Molecular orbital theory - Bond order & its application for - (a) N2,N2-,N2+ (b) O2, peroxide, superoxide

Dipole moment , Bond angle ,(H-Bond).

NCERT questions based upon above topics.



1st LAW OF THERMODYNAMICS Definition like state function, state variable, Limitation of first law. Numerical on Hess, s law . Bond Energy, Free energy and Entropy and Spontaneity.

MANAGE AND THE PARTY OF THE PAR

STATES OF MATTER Numerical on Ideal gas equation and Dalton law (with density relation) Theory part questions on Charles law, Definition of viscosity . surface tension etc.

Significance of a and b. NCERT questions on above topics,

EQUILIBRIUM

Kc and Kp, relation between Kc & Kp, Numerical based upon equilibrium constant, Le-chatelier principal and Henry's Law and application. Acid - base concept, Amohoteric substance, Conjugate acid and base, numerical is based upon pH, solubility product and ionic product with the numerical, salt hydrolysis.

SOME BASIC CONCEPTS Empirical formula, molecular formula, Limiting agent, selected problem of mole concept, Molarity only , NCERT problems based upon stoichiometry and limiting reactant Definition of Law of Multiple proportion, Gay lussacs law.

