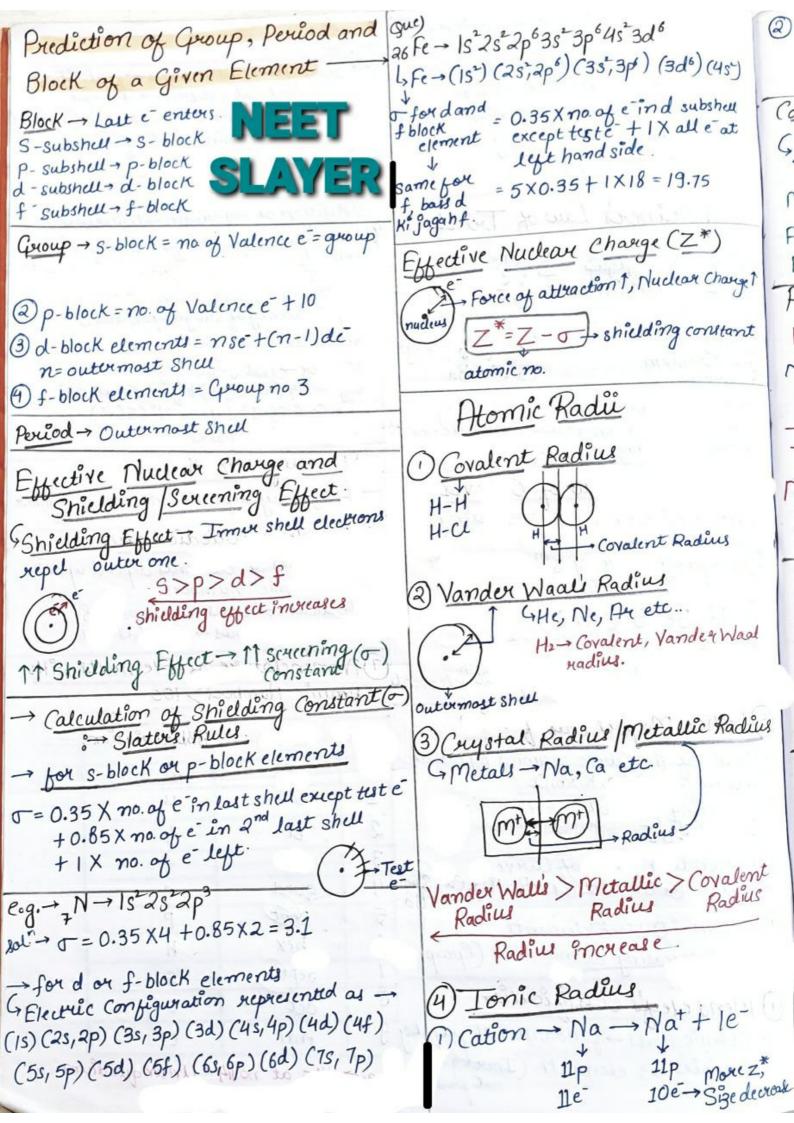
PERIODIC TABLE				
Cosciening Constant and effective nuclear charge.	→ Seven Houzontal yours → periods. Eight Vertical colums → groups			
> Ionic Radii and Ionisation energy.	→ Left Vacant Spaces for gases Undiscovered Geka-aluminium, eka-Silicon			
-> Electron Gain Enthalpy.	Acha-aluminium, eka-sizi con			
→ Electronegativity.	Probl	lems:->	Gre	
1) Doberuner's Law of Triads	② Position of Hydrogen → Uncertain.			
CBI Ke PAS SaSTe CBI, Ke PAS, Sb S, Se, Te	No separate position for Isotopes: 3 No separate group → Lanthanides and 4 Although no resemblance actinides except valency of subgroups A and B			
Li PStick hat hat jo wo Co SaB, Kodegi.	putted in same group.			
Li Potassium (a, Su, Ba	Dorder → Not structly followed. e.g. → Ar (wt 39.9) before K(wt 39].			
-> Elements awanged in increasing	→ Co (58.9) before N° (58.6)			
atomic mass in traids. Mid elements	-> Anamalous Pairs.			
mall is average of two.	6 Moseley's Work			
2 Newland's Law of Octaves	→ Properties of elements depend upon atomic number			
(1) Avanged elements in increasing atomic Mass. (2) Proporty of every 8th element is				
HLi Be B C NO	→ Vertical Columns → Groups → 18 → Horizontal rows → Periods → 7			
F Na mg.	- Horizontal Hous - Periods - F			
F Na Mg. Limitation -> Valid only upto 20th elements	Atomic Numbers > 100			
(3) Lother Meyer's Classification	Digit	Name	Abbreviation	62
Peak of the Curve occupied by Alkali metals - Li, Na, K, Rb, Cs	0	nil	n	TT)
metals - Li, Na, K, Kb, Ct	1	un	u	
2) Ascending part of Curve - Halogens F, Cl, Br, I.	2	bî	b	4
Description court of Charge	3	tri	to to am X	
3) Descending part of Curve → alkaline earth Metals → Be, Mg, Ca, Sr, Ba	4	quad	- 9	O
and Ba	5	pent	P	-
(4) Bottom - D block elements	6	hex	h	in
9 Bottom - D block elements -> In increasing atomic mass (Graph)	7	Sept	5	m
a mende leeks classification	8	oct	0	Z
-> Atomic Mass -> fundamental propelity	9	enn	e	40
→ Atomic Mass → fundamental property → Classified 63 elements (Incut gass not present)	e.g	114 = at no. Symbo	114 = Ununquadic e = Uuq	ım



2) Anion→Cl+1e→Cl →Z* Less

parient Anion → Size more
17p 18e
17e 18e Mgcg)→Mgcg)+le-→1st I.E. Mg(g) → Mg(g)+1e- 2nd I.E. factors affecting Ionisation Enthal Calculation of nion for Isoelectronic Species. Same no. of e. S→Screening Effect ~ 1 I.E. Z* I.E. more no of proton, SHigher atomic no. H- Half filled and fully filled orbitals mg2+ 12 10 Lesser Size NEEL AL3+ 13 10 A - Atomic Radii 4 1 I.E. SLAYER F-19 110 P→ Penetration Effect &I.E. S>p>d>F. Factors Affecting Atomic Radii M→ Multiplicity of Bonds $\alpha \frac{1}{xadii}$ No. of bonds b|w atoms C-C>C=C>C=C>C=C.Radius Decreases Variation of IF in a Periodatomic radius decrease * Be>B] J.E. I.E. Encrease * N70 Jekephon Variation of IFin a Group 1 % of Ionic Character & I radius atomic Radius increase. N→ No. of Shells & radii. I.E. decrease. E→ Effective Nuclear ~ 1 Charge (Z*) radius * ga has higher IE than Al Electron Gain Enthalpy (Deg HT)
and Electron Affinity (EA) Variation of atomic Radii in a Period-Z* increases from left to right. NIGA (Neutral Isolated Gaseous Atom) atomic radil Decrease → Noble Gases have max. radil in their period, because we measure V.W. radius for noble gases. Cleg) + 1e -> Cleg) (AHeg = (-)ve) Selectron gain enthalpy -> Jiski -ve me, value 3yada -> ECIE zyada (AHeg) Variation of atomic Radii in a Group

[no. of shells 17

Size 17 Electron Gain Enthalpy Flectron Affinity (Que) Ga < Al size? Soli Ga present after d-block elements which have weak shelding effect - size by. Deg H | Electron Affinity any imperature Bero Kelvin C> Sign opposite renti hai. Ionisation Enthalpy (AH) Neutral / Gaseous to remove e Trolated Deg H → 3 yada → e wants to come. NEET SLAYER

