	Page No.
	leriodic Properties
	Effective Nuclear charge (ZeH): - Net the charge experienced by valence e:
	Experienced by valence e:
0	Nuclear charge (2.): - the charge experienced by value.
0	Screening effect (6):- Repulsion experienced by valence e- bry inner cell e
	e-dry inner cell e
	Zeff = Z-6.
	Er k 2 2 k 2 p 2
	Toother all a live a sign of the state of th
->	Factors affecting zeff:
D	If Distance from nucleus (D) T . 5 T , Zey V.
7.	If Distance from nucleus (D) T , 5 T, Zeff & Eg: - Zeff (1s) > Zeff (2s) > Zeff (3p) > Zeff (4p)
27	Diffused orbitals experience & zey.
	Zey 5>p>d> = Zey (4s) > Zey (4p)
(2)	Variation in s, p, d, f orbital energies  In single e atom spleses: - H, Het, Litt  Energies: - 15 < (25 = 2p) < (35 = 3p = 3d) < (45 < 4p = 4d) = 44)
	In single e atom splaces: - H, Met, Litt
	Energies: - 15 < (25 = 2p) < (35 = 3p = 3d) < (45 < 4p = 4 d 8 = 4f)
	Energy 30 30.
	23 2p 25 2p
	fis fis
	Single e Multi e atom
	( ) a sepedet
	(n+l) 1 energy 1.
	(n+e) when same then which has higher in Tenergy ?
	15<25<3d>48<4p<5a Sql20

ρ, l:1 d, l:2 f, l:3

ecca senting	Pager No.
4	Linete
No.	6: 152 252 2063 323 p6 4 21 3d 7 Exception
-	Gu - 15 20 2063 2 306 4 2 3 d'
	Cu: 152 25 2p6 3 22 3p6 4 21 3d " ] Exceptions  Cu: 152 252 2p6 3 22 3p6 4 213 d10 ]  Ray filled and fully filled orabitals are more state
-	Atomic and Ionic siges
1	Na > Nat Naz 11, Na 211-1210
	Cl < Cl - 17, U = 17 HEV.
1	
-	when an e is added to a neutral atom to form vely
-	when an e is added to a neutral atom to form vely
-	Charged ion.
-	-> Successive E. A.
-	A +e- > A = E + ve generally
	A + e > Az z - ve always 7 as - vs con
	A + e - As z - Ne Olyman J oppose e having
	TO FA
	Exceptions: - Noble gases have O F.A, Half & fully filled whitals have
	Be & Mg of 2nd group have Of. A he cause they have
	fully filled or bitals.
-	-> Factors on which F. A depends.
	AFFOR SINCE CONTRACTOR WILL
	· FAX 1 XZ
+	Atomic size.
+	Michael Charge T, EAT Atomic Signt.
*	Exaption: Cl>F>Br>I
+	Cl has higher E. A as size of flowring atom is very small &
	it cannot accepte
1	

	(Paga No.
	Date:
A	Electronegativity - Tendency of an atom to attract shared
	pair of e in covalent bond
	Eg HCl. , 6.N:- Cl>H
-	Factors on which E. Al depends.
	EN & L & Z
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
(2)	EN & charge on cation. Eg: - Fe <sup>2t</sup> < Fe <sup>3t</sup> , Mn <sup>2t</sup> < Mn <sup>6t</sup> EN & 1
(3)	EN & 1
	Charge on anion.
(V)	EN & % of s character sp>sp²>sp³
	ENT, N.CT TENT as Atômic Size 1
-)	
-)	Exception, E. N of Noble gas is O.
-)	It helps in nomenclature of binary compound, ENA ide in
	HCe P-Cl3
	Hydrogen chloride Phosphorus trichloride
	7. First I.E. IE
	[Ebr. 66 less - ve down the group

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