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It is given by Sidgwick and Powell. This theory is based on the repulsive character of electron pairs in the atom valence shell The main postulates are i) The exact shape of the molecule depends on any of the electron pairs (bonded or not – tied) around the central atom. ii) Electron pairs tend to repel each other since they exist around the central atom and e- clouds are charged negatively. iii) electron pairs try to take such a position that can minimize b/w repulsion. iv) The valence shell is taken as a ball with electron pairs placed at a distance. v) A multiple bond is treated as if it is a single electron and electron pairs that make up the bond as a single pair. (vi) The maximum repulsion is between solitary torque electrons and solitary torque electrons and min. between electron connection couple and electron connection couple vii) The bond pairs and solitary pairs minimize repulsion and take the position with a minimum repulsion. Viii) The repulsive interaction of electron pairs decreases in order: solitary couple (lp) – solitary couple (lp) > Lonely couple (lp) – Bond pair (bp) > Couple of bonds (bp) – Couple of bonds (bp) we can predict the shape of molecules by dividing molecules into two categories molecules (i) where the central atom has no solo couple molecules (ii solo) in which the more central atom Case -1 molecules in which the central atom has no solitary couple In these molecules, the central atom does not have any solitary couple and has only tied couple A)where the central atom has two pairs related to Molecular geometry Linear examples BeCl2 B) Molecules where the central atom has three pairs united Molecular geometry: Examples: BF3 C) Molches where the central atom has four couples Here in this central atom is located in the center with four substituents located at the corners of a tetrahedron. Molecular geometry: tetrahedron Examples CH4 D) Molecules where the central atom has five couples tied Here Three of the ties are arranged along the central atom equator, with angles of 120° between them; the other two are placed at the axis of the atom. Axial ties are at an angle right to equatorial ties Molecular geometry Bipiramidal trigonal examples PCl5 Case -2 molecules where the central atom has one or more usual pair A) Lone Pair -1 and Bond Pair 2 Electron Geometry Shape Of molecule : Example of bench: SO2 ,O3 B) Pair of screws -1 and Bond Pair 3 Shape of electron geometry Of molecule: Trigonal Pyramid. Corner should be 109.50 but is reduced to 107o since the lp-bp repulsion is more than bp-bp repulsion Example: NH3 C) Lone Pair -2 and Bond Pair 2 electrons Geometry Shape: Bent. Theoretically, the angle between should be 109.50 but is reduced to 104.50 as the lp-lp repulsion is more than lp-bp repulsion which is more than bp-bp repulsion. Example: H2 O D) Lone Pair-1, Bond Pair -4 Electron Geometry Shape: distorted tetrahedron, a bent square or a saw. Example: F4 QuestionBecause Ammonia is pyramidal and water is Response In NH3 curve due to bp – lp repulsion which is more than bp – bp repulsion, the bond angle reduces to 107o instead of 109.5o In water due to two solitary pairs, lp – lp repulsion those are much more than bp – bp repulsion. The bond angle reduces to 104.5o instead of 109.5o Demand S F4 is sea – seen in shape. Why? Answer When lp is present in exit position there are more bp – lp repulsion while if lp is present in equatorial position there are less bp – lp repulsion. Therefore, later one is more stable condition. So, S F4 has the sea – saw the shape. Question Cl F3 is T-shaped. Why? Lps response when present at equatorial positions there are less lp – bp repulsion therefore it is having T – in the form of A due to lp – bp repulsion occupied folded T – form. link to this page by copying the following text VSEPR Theory (Valence Shell Electron Revulsion Theory) Notes If you want more large resources check my grade 12 resources. Give the name of the electronic layout and the name for molecular geometry for each of the species in question #3. Check your answers Mazugul 28.11.2028.11.2020 Jon michael bet comments Nira 17.03.202117.03.2021 Ekanki karo Vukasa 11.04.202111.04.202121 Best surround sound mode for movies Comments Nacage 19.05.202119.05.2021 Darkumbra 2020 Comments This is an example widget to show how the left sidebar appears by default. You can add custom widgetsthe widget screen in the administrator. If custom widgets are added, this will be replaced by those widgets vsepr worksheet chemistry 11h answer key

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