RACE NO(1) { Solutions } Qu: 1:st s- st son time average the molecule is non folar but at the particular moment it act as a dipole which is equally possible in all directions. <u>solni</u> only (B) option is given incorrect Ou: 2 i- Ansi-B] order of boiling point. The correct order of B.P. will be Here extent of H-Banding CHU < NH3 < HF < (H20) is maximum. Buil [Anoi- 2] Solni All-the obtions are correct because of all-the factors are responsible for vander wood force of attractions. Qui 4 i /Ansi A] => correct order of boiling point is :-Cattle > Cafe; + It is consect neo-pentane> iso-pentane; - Incorrect (B) (c)T2 < D2 i- Incorrect (2) SbH3 < NH3 i-Incorrect

u Si Cos = - u Si vs -Due to more différence in electronegativity b/w si and cl atoms, than c-u band. the magnitude of negative charge develop at Chlorine atom in Silly is more & repulsive force is dominated than attractive force. Qui O: Ansi A, B, C, 2] solutioni took Londonforce works in all kinds of molecules i.e. polar as well as non-polar molecules. Qui Fi= [Augi= A, C, D] Solvie The inter-molecular interaction energy is dependent on the 8-6 (r=distance):dipole-dipole interaction (gaseon) Lifale-included Motecules. Instaneous dépole-dépole induced dépole intraction

Qu.(5); - Ansi-2

Solutioni

Solution! Ang! (B)

Solution! Formation of clathrates is an example of clipolar included dispolar interactions:

If non poolar makecule is 'smallar in size then it will be least polarisable size then it will be least polarisable at the least tendency to form a clathrate the hiss least for clathrate formation tendency.

- B] more is dipole moment more will be the dipole dipole intraction b/w the moreule.
- c] [London dispersion force of No.ofes]
 it is reverse in option's'—(x)
- B. pt & mol. wt. ox. v.fo

 mol. wt of Hydride of Carbon family
 increases as we go down the group.
 increases as we go down the group.

 so its B. pt = hould increase not

 diecrease
 hence optim (D) is -(X)

Ans-10-D Nobel gases are non bolar, on their liquification only London force acts.

[London force = Instantaneous dibole - Induced dibole]

A) Ion-dibole Intraction (x)

B) Dibole-Induced dibole intraction (x)

C) Dibole-Induced dibole intraction (x)

A) Instantaneous dibole-Induced dibole intraction.

Solubility of Noble gas in wester;

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Solubility of Noble gas in wester;

Solubility of Noble force.