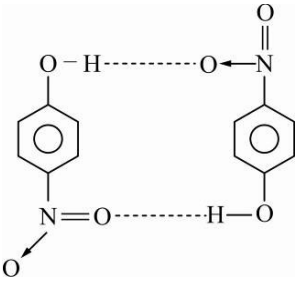
Daily Tutorial Sheet-15	Level - 3

159.(BD) The heat of fusion and heat of vaporisation depends upon the strength of intermolecular forces.

160.(A) Intermolecular H – bonding.



161. **(A)-p ; (B)-r ; (C)-q ; (D)-s**

Ethyne $\rightarrow$ $HC \equiv CH$ $\Rightarrow$ C – H is sp – s overlap

$POCl_3$ $\rightarrow$ P is sp^3 hybridised

Br_3^{-1} $\rightarrow$ Central Br atom is sp^3d hybridised

162.(B) XeF_2 : $8p^3d$

XeO_3 : sp^3

$XeOF_4$: sp^3d^2

XeO_2F_2 : sp^3d

163.(B) The solubility of noble gases is due to dipole-induced dipole attractions where strength increases as the size of atoms increases down the group.

164.(A) XeF_6 has sp^3d^3 hybridization –6 σ bonds & 1 lone pair. So, it has distorted octahedral structure.