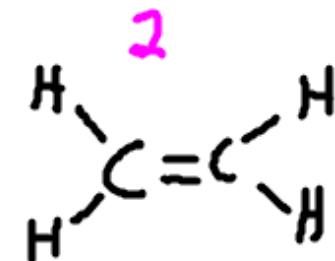
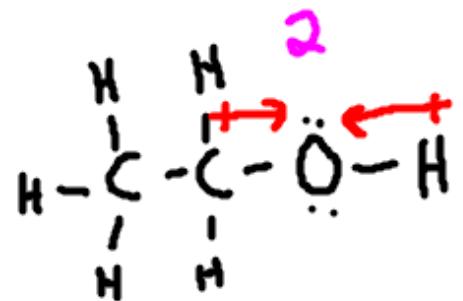


51) electronegativity = how much an atom wants a
(2) shared pair of electrons

52) (1) F

53) (3)
a) C or O b) S or O c) Li or F

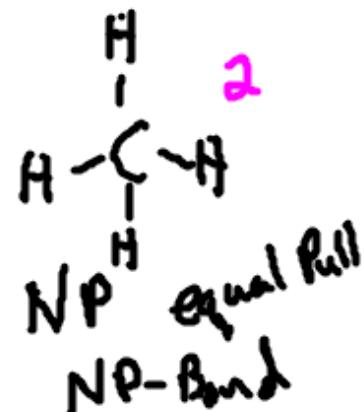
61) H₂O 3



63)



NP
Same Element



NP equal pull
NP-Bond



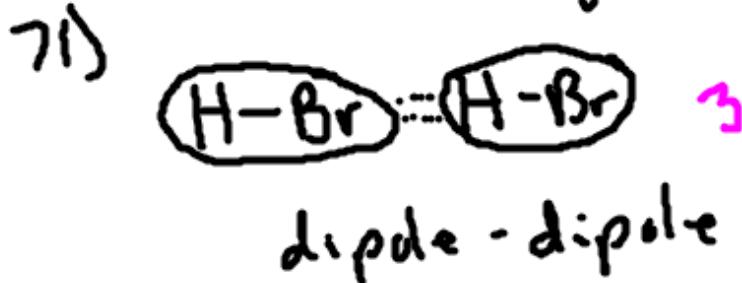
3.2
T9

65) ¹ covalent bond - within molecule

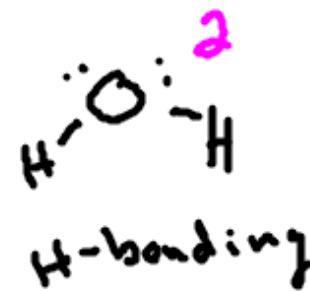
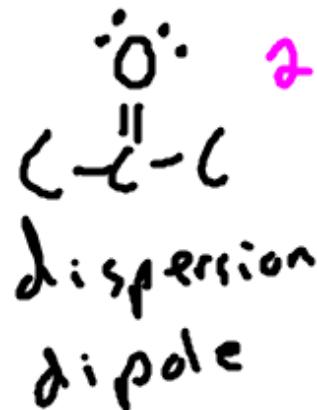
Intermolecular force of attraction - between molecules

67) ⁵
 
 dispersion, weakest dipole-dipole H-bonding, strongest

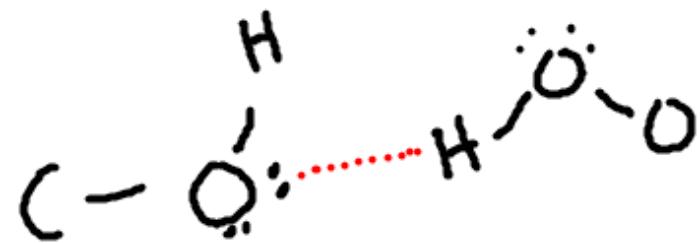
69) ² temporary charge between $\underline{2}$ atoms in a NP bond



73) ²
 C₅H₁₂
 dispersion
 NP molecule



77) 3



78) 1
H-bonding

81) 3
Estrogen binds to the estrogen receptor and activates several genes. This gene activation also stimulates the proliferation of breast cancer cells.

82) 3
Antiestrogens block the estrogen receptor in breast cells. When antiestrogens bind to the receptor,

83) 3
The estrogen receptor is a large protein molecule. Estradiol fits the estrogen binding site perfectly because it has a complementary shape to the binding site - a cavity within the receptor.

13

- 84) Dispersion forces allow estradiol to bind to the estrogen receptor site.
- 85) When Tamoxifen binds to the receptor, it changes the shape of the receptor, preventing gene activation.
- 86) Estrogen promotes the growth of strong bones; bone cells contain estrogen receptors. If estrogen is prevented from binding to these receptors, bone loss or osteoporosis will occur.

40 (1.1)
19