Molecular Compounds

① ionic – metal + non-metal
– electron transfer

molecular – 2 non-metals
– electron sharing

② a) 2 non-metals

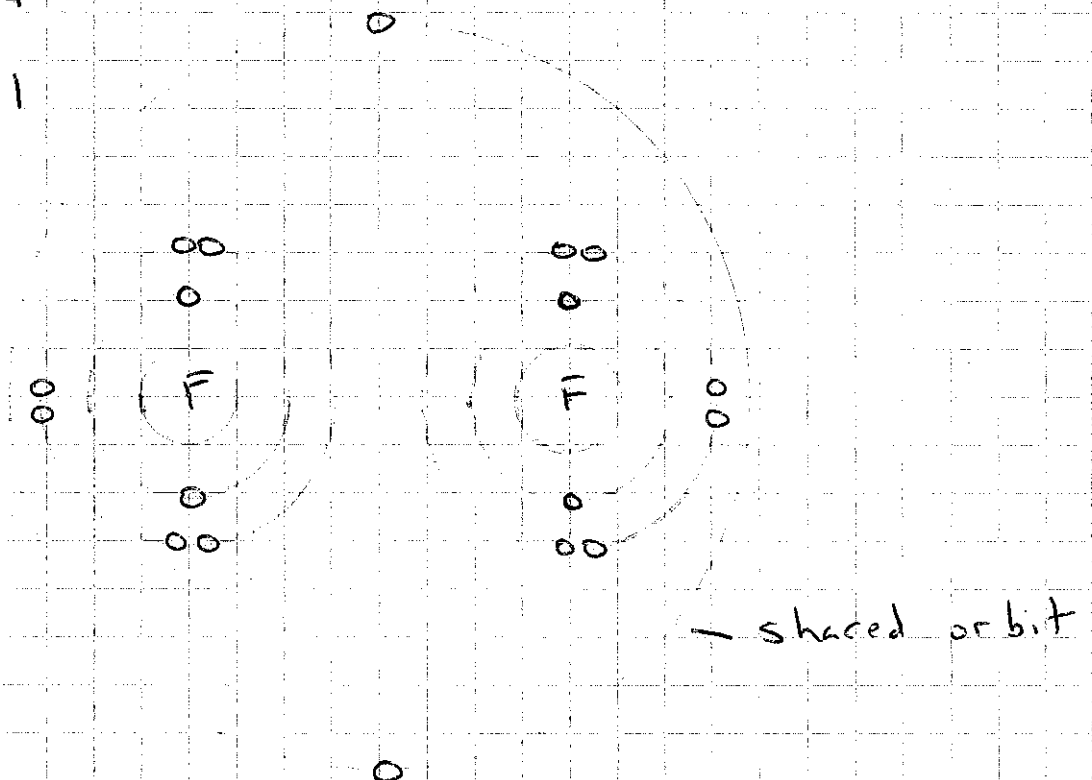
b) electron sharing

c) covalent bonds

③ a) 7

b) 1

c)



④ top right corner

			H
	N	O	F
			Cl
			Br
			I

⑤ a) carbon tetrabromide

b) nitrogen triiodide

c) oxygen difluoride

d) silicon tetrachloride

e) diphosphorous pentoxide

⑥ a) Si shares 4

O shares 2

Need 2 x O to make it work

SiO_2 silicon dioxide

b) N shares 3

H shares 1

Need 3x H to work

NH_3 ammonia

c) P shares 3

Cl shares 1

Need 3x Cl

PCl_3 phosphorous trichloride

⑥ d) S shares 2

Br shares 1

Need 2x Br

SBr_2 sulfur dibromide

e) C shares 4

Cl shares 1

Need 4 x Cl

CCl_4 Carbon tetrachloride