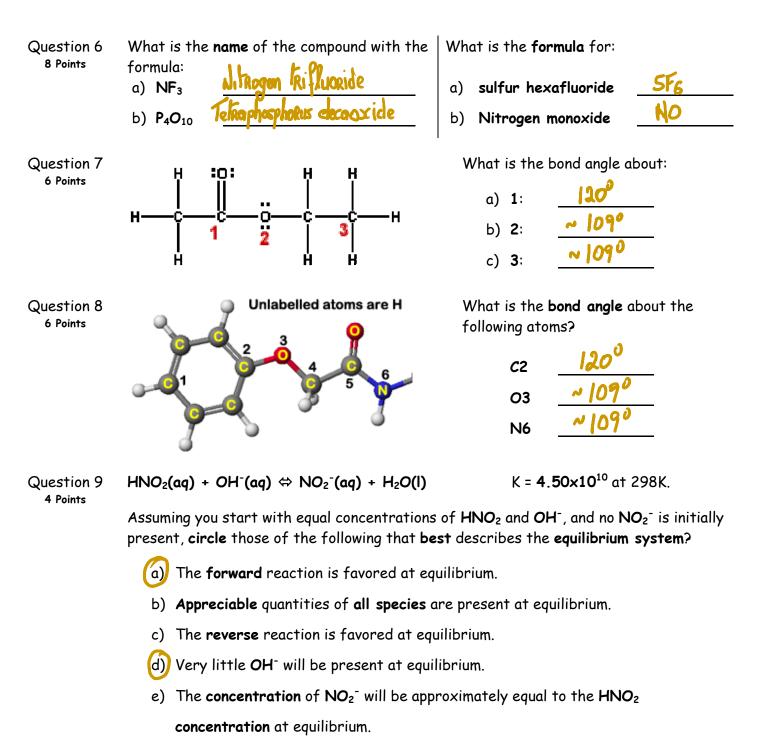
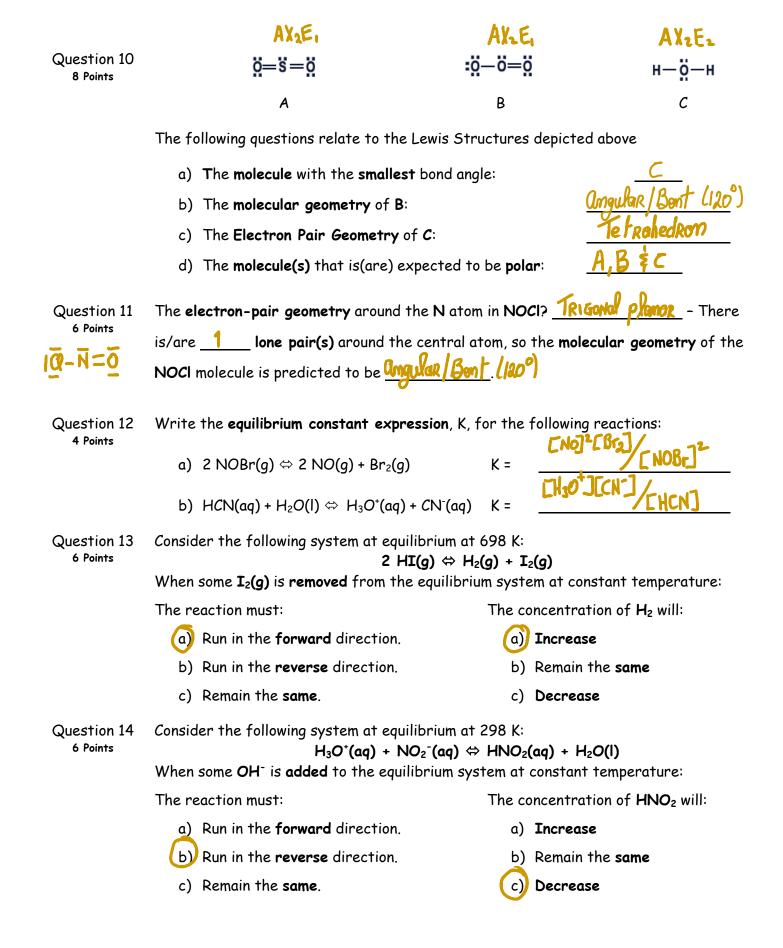


Question 5 NO₂Cl has resonance structures - draw them. 6 Points







Question 15 Consider the following system at equilibrium at 573 K: 6 Points 2 NO(g) + Cl₂(g) \Leftrightarrow 2 NOCl(g) + 18.4 kcal

If the **temperature** of the equilibrium system is suddenly **decreased**:

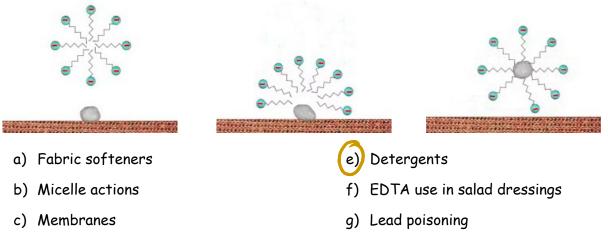
The reaction must:

(a) Run in the **forward** direction.

- b) Run in the **reverse** direction.
- c) Remain the same.

The concentration of **Cl**₂ will:

- a) Increase
- b) Remain the same
- c) Decrease
- Question 16In our discussion on the consequences of molecular polarity, the depiction below was used4 Pointsto discuss:



d) The dissolution process

h) Chelating therapy.

