1) What hybrid orbital would be expected for the central atom in each of the following: ? Draw the molecular structure of these compounds and label π and σbonds.

A: SrCl2

B: NO2

C: COF2

D: GeCl4

E: PBr3

2) Draw the possible isomers of SO3 ).

4) Prepare *25* gm of *2.5%* w/w NaCl solution

5) Prepare 50 ml of 13% alcohol solution from 200 ml of 20% alcohol solution

6) Prepare 0.5 molar solution of C6H12O6from 5 molar solution