**Sheet 6b.**

Draw structures for each of the following molecules and ions.. Indicate the shape, and the probable hybridization of the central atom.

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| SO3 | ICl5 |
| CBr4 | SF6 |
| NO2– | XeF4 |
| NH3 | ICl2– |
| COCl2 | PCl5 |
| BeI2 | C6H6  (benzene) |
| H2SO3 | PO33– |
| H3PO4 | SCN– |
| SiF42– | C3H4 (Indicate the hybridization on each of the three carbons) |
| HNO3 | I3– |