**Sheet 6b.**

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

|  |  |
| --- | --- |
| 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–  |