**Sheet 6b.**

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

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