

**Quiz 3 – Sept. 25, 2019**

1. (6 pts) Please provide the name for each of the following compounds:
- $\text{Co}_2(\text{SO}_4)_3$
  - $\text{ICl}_5$
2. (13 pts) The following questions relate to the triatomic molecule NOBr, for which **N is the central atom**.
- Please draw **two resonance structures** for NOBr.

- Calculate **formal charges** for all atoms in your structures. (Please show answers on structures above.)
- Which resonance structure above **best** describes bonding in NOBr? Briefly **explain** your choice.

- Based on your answer to part (c), what is the **N-O bond order**?

3. (6 pts) For each question below, **circle** the molecule or bond with the desired property:

