

CH 151 Quiz #3 Name: _____

Be sure to show all work, use the correct number of significant figures, circle final answers and use correct units in all problems.

Helpful hints: **phosphate** = PO_4^{3-} **nitrate** = NO_3^{1-} **hydroxide** = OH^{-1} **sulfate** = SO_4^{2-}

ANSWERS appear in BOLD.

1. Write the names of the following compounds: (1 point each)

Na_2S **sodium sulfide**

$\text{Cu}_3(\text{PO}_4)_2$ **copper(II) phosphate**

TiO_2 **titanium(IV) oxide**

CsNO_3 **cesium nitrate**

Li_2S **lithium sulfide**

HCl **hydrochloric acid**

PCl_5 **phosphorus pentachloride**

RbBr **rubidium bromide**

KOH **potassium hydroxide**

SF_4 **sulfur tetrafluoride**

2. Write the correct formula for each of the following compounds: (1 point each)

aluminum iodide - **AlI_3**

nickel(II) sulfate - **NiSO_4**

selenium difluoride - **SeF_2**

potassium phosphide - **K_3P**

nitric acid - **HNO_3**

iron(III) hydroxide - **$\text{Fe}(\text{OH})_3$**

silver(I) bromide - **AgBr**

sodium hydroxide - **NaOH**

nitrogen dioxide - **NO_2**

vanadium(V) oxide - **V_2O_5**