Naming Inorganic Compounds

Molecular compounds use number prefixes (eg., carbon

21. Write chemical formulas for the following compounds and identify which are molecular (MC) and which are ionic (IC):

- a. Sulfur dioxide 502
- b. Dinitrogen pentoxide
- c. Iron (II) oxide Fe
- d. Lead (II) phosphate b_3 y_2 y_3
- e. Hydrogen sulfide (14)
- f. Calcium carbonate $\frac{2}{2}$ (14)
- g. Hydroiodic acid ((())
- h. Nitric acid HVO2 ()
- i. Nickel (III) sulfide 152 (14)
- j. Hydrophosphoric acid H₃ V O₄ (14)
- k. Carbon tetrafluoride (MS)
- I.__Xenon hexafluoride Xe (m4)
- m. Aluminum oxide $\frac{A_1O_2}{(i L)}$
- n. Lithium bicarbonate Li HWz ()

22. Name the following compounds and identify which are molecular (MC) and which are ionic (IC):

- a. CoCl2 Lobal + Chloride (jL)
- b. $Ca_3(PO_4)_2$ La LIVM hosphate(iL)
- c. co <u>Carbon Monoxide</u> (mo
- d. PH₃ / nosphine (IL)

e. so₃ 5/1/1/e (m4) f. P4 MOSPholys (e/m) g. N₂O₄ <u>Pinitogen Perto vide</u> (mu) h. NaOH SodivMHydroxide (14) i. Caso, Calling V/Fate (12) j. Pb(NO₃)₄ ead Vitate (iL) k. FeCl₃ Con Unlocide (iL) 1. Na20 50 divm Oxide (14) m. HNO3 Vitcil Acid (ic) (acid) n. C₄H₁₀ Butane mu 1-01= OH o. CH₃OH Methano (14) p. SF₆ 2 V fv Heyaflooidomy q. κ₂co₃ lotassivm (1L)

23. Gi	ve the chemical names of each of the following familiar compounds:
a.	NaCl (table salt) Sodium (horide
b.	NaHCO3 (baking soda) Sodium Bicarbonate
c.	NaOCI (bleach) Sod IVM Oxychloride
d.	NaOH (drain cleaner, lye) Sodium Hydroxide
e.	(NH ₄) ₂ CO ₃ (smelling salts) <u>Hmmonlym</u> Lackonate
f.	CaSO ₄ (plaster of paris) <u>Callivm Sulfate</u>
a. b.	Sucrose 12 H12 11 Acetic acid Magnesium sulfate Mg 504
d.	Ethanol
e.	Calcium carbonate <u>La LO3</u>
f.	Ammonia 17