Mixed Ionic/Covalent/Acids Compound Naming

*For each of the following questions, determine whether the compound is ionic, covalent, or acid and name it appropriately.*

1) Na2CO3 sodium carbonate ionic

2) P2O5 diphosphorus pentoxide covalent

3) NH3 ammonia covalent

4) H2CrO4 chromic acid acid

5) FeSO4 iron(II) sulfate ionic

6) SiO2 silicon dioxide covalent

7) H2Te (aq) hydrotelluric acid acid

8) BaCl2 barium chloride ionic

9) CoBr2 cobalt(II) bromide ionic

10) B2H4 diboron tetrahydride covalent

11) CO carbon monoxide covalent

12) Fe2(SO4)3 iron(III) sulfate ionic

13) BBr3 boron tribromide covalent

14) CaSO4 calcium sulfate ionic

15) H3PO4 phosphoric acid acid

16) Cr(CO3)3 chromium(VI) carbonate ionic

17) Ag3P silver phosphide ionic

18) IO2 iodine dioxide covalent

19) VO2 vanadium(IV) oxide ionic

20) PbS lead(II) sulfide ionic

21) HBr (aq) hydrobromic acid acid

22) N2O3 dinitrogen trioxide covalent

23) HClO4 perchloric acid acid

For each of the following questions, determine whether the compound is ionic, covalent, or acid and write the appropriate formula for it.

24) dinitrogen trioxide N2O3 covalent

25) iron (III) sulfide Fe2S3 ionic

26) nickel (II) iodide NiI2 ionic

27) lithium acetate LiC2H3O2 ionic

28) phosphorus trifluoride PF3 covalent

29) hydroselenic acid H2Se (aq) acid

30) vanadium (V) oxide V2O5 ionic

31) aluminum hydroxide Al(OH)3 ionic

32) zinc sulfide ZnS ionic

33) silicon tetrafluoride SiF4 covalent

34) phosphoric acid H3PO4 acid

35) silver phosphate Ag3PO4 ionic

36) tetraphosphorus triselenide P4Se3 covalent

37) potassium acetate KC2H3O2 ionic

38) iron (II) phosphide Fe3P2 ionic

39) disilicon hexabromide Si2Br6 covalent

40) titanium (IV) nitrate Ti(NO3)4 ionic

41) chloric acid HClO3 acid

42) copper (I) phosphate Cu3PO4 ionic

43) nitrous acid HNO2 acid

44) tetrasulfur dinitride S4N2 covalent

45) hydrocyanic acid HCN acid

46) oxalic acid H2C2O4 acid