**Objective A: Identify the names of binary compounds from their formulas. Also be able to write the formula of a binary compound from its name.**

**Objective B: Identify names of polyatomic compounds that contain polyatomic ions. Also be able to write the name of a binary compound from its name.**

**Objective C: Identify the names of simple organic compounds. Also be able to write the formula of an organic compound given its name.**

**Objective D: Identify the names and formulas of compounds that contain variable charge ions.**

**Objective E: Identify the names and formulas of binary and polyatomic acids.**

Answers:

1. NaF 11. Na2CO3 1) Sodium Fluoride 11) Sodium Carbonate

2. FeOH 12. H2SO4 3) Iron(I) Hydroxide 12) Sulfuric Acid

3. CuO 13. CuOH 3) Copper(II) Oxide 13) Copper(I) Hydroxide

4. C3H8 14. Ba(NO3)2 4) Propane 14) Barium Nitrate

5. LiNO3 15. HIO3 5) Lithium Nitrate 15) Iodic Acid

6. NH4Cl 16. C8H18 6) Ammonium Chloride 16) Octane

7. CF2 17. CO 7) Carbon difluoride 17) Carbon monoxide

8. B3F2 18. N2Cl3 8) triboron difluoride 18) dinitrogen trichloride

9. Al2S3 19. K2CrO4 9) AluminumSulfide 19) Potassium Chromate

10. HBr 20. HCl 10) Hydrobromic acid 20) Hydrochloric acid

Write the formula for the following:

21. Calcium Fluoride 22. Lithium Phosphate 21) CaF2 22) Li3PO4

23. Iron (II) selenide 24. Calcium Nitrate 23) FeSe 24) Ca(NO3)2

25. Disilicon pentoxide 26. Sodium Hydroxide 25) Si2O5 26) NaOH

27. Pentane 28) Hydroiodic acid 27) C5H12 28) HI

29) Silver carbonate 30) Lead(IV) fluoride 29) Ag2CO3 30) PbF4

31) Boron monoChloride 32) Aluminum Nitride 31) BCl 32) AlN

33) methane 34) nitrous acid 33) CH4 34) HNO2

35) Ammonium sulfate 36) Phosphorous acid 35) (NH4)2SO4 36) H3PO3

37) cobalt(III) carbonate 38. Barium acetate 37) Co2(CO3)3 38) Ba(C2H3O2)2

39) Zinc permanganate 40) hypochlorous acid 39) Zn(MnO4)2 40) HClO