

Intro/Naming Review-60

- 1) Define :
 - a) Chemistry
 - b) Mass
 - c) Pure substance
 - d) Ion
 - e) Mechanical Mixture
 - f) Physical Reaction
 - g) Potential Energy
- 2) What is a covalent compound?
- 3) What is an ionic compound?
- 4) Give four properties of metals.
- 5) What does the atomic number tell you about an element?
- 6) What is the usual combining capacity of the group that contains calcium?
- 7) What is the usual charge on an oxygen ion?
- 8) Name three elements that are more metallic than barium.
- 9) Classify as: e (element), c (compound), s (solution), mm (mechanical mixture).
 - a) neon gas
 - b) rock
 - c) crystal
 - d) Coke
- 10) Give the formula :
 - a) aluminum chloride _____
 - b) magnesium nitride _____
 - c) nickel (III) carbonate _____

- 11) Name the compound :
- a) PbCrO_4 _____
 - b) $\text{Sn}(\text{NO}_3)_2$ _____
 - c) N_4S_5 _____

Answers : 1)a) It is the study of chemical reactions., b) It is the quantity of matter., c) It is an element or a compound., d) It is an atom, or group of atoms with a surplus or deficit of electrons., e) It is a non-homogeneous mixture., f) It is a change in the state of matter., g) It is stored energy., 2) It is a compound containing two non-metals. The bond is a pair of shared electrons., 3) It is a compound containing a metal and a non-metal. The metal loses its electron(s) to the non-metal so that the bond is ionic., 4) shiny, good conductor, ductile, malleable, 5) It gives the number of protons in the atom (or electrons in a neutral atom)., 6) +2, 7) -2, 8) Cs, Ra, Fr, 9)a) e, b) mm, c) e or c, d) s, 10)a) AlCl_3 , b) Mg_3N_2 , c) $\text{Ni}_2(\text{CO}_3)_3$, 11)a) lead (II) chromate, b) tin (II) nitrate, c) tetranitrogen pentasulfide.