Master Gardener Homework Assignment
Integrated Pest Management/Pesticide Safety

___True ___ False 1) The goal of integrated pest management is the total eradication of pest problems.

___ True ___ False 2) The signal word on a pesticide label indicates how toxic the material is to humans.

___ True ___ False 3) Phytotoxicity can be caused by excessive application or drift.

___ True ___ False 4) Volatilization of a pesticide is more of a concern when temperatures are high.

___ True ___ False 5) Most pesticide exposures occur through the hands and forearms.

6) A telephone client has a pesticide with a label that calls for 2 quarts of the concentrated material to be mixed with 100 gallons of water. He wants to spray it with a 2 gallon pump-up sprayer. How much of the pesticide concentrate should be mixed in 2 gallons of water?

7) Your neighbor has a whitefly problem on his gardenias. One recommended product has a LD50 of 36 and another has an LD50 of 440. Assuming that either product will control the whiteflies and that he wants to use the least toxic material, which will you recommend? Explain the concept of an LD50.
8) Given the choice of a wettable powder formulation (WP) or an emulsifiable concentrate (EC) of the same active ingredient, which is a better choice for a typical backpack sprayer? Explain your reasoning.

9) A client calls and wants to use a weed-and-feed product on her centipede lawn. The product she has purchased is a 15-0-15 fertilizer with atrazine herbicide especially formulated for centipede and St. Augustine grass. Advise her on the relative merits of using this product in late March. Consider the timing of nitrogen applications, stages of weed growth and label restrictions for atrazine.

10) Your neighbor is redoing his landscape and, having heard you extolling the virtues of integrated pest management (IPM), he wants his new landscape to be able to take advantage of IPM. Unfortunately, he’s not quite sure what to do. Give him some guidelines for keeping his new landscape healthy without overusing pesticides.