2017 York County Master Gardener
Open Book Review # 1

Due in in Class April 4th !!

This review is open book take home – use any and all resources, including consulting/working together with fellow MGs if you wish.

Please write CLEARLY or type your answers on the computer. You may submit your review as a email attachment of if you choose, print it and bring it to class completed.

Name:_____________________________________

Orientation

1. Your neighbor hears you are a new trained York County Master Gardener Volunteer. They ask, “what pesticide can I use to kill these weeds taking over my lawn?” Your response is:

2. Cooperative Extension is a nationwide network with statewide and county offices associated with the Land Grant Institution in every state in the nation. What is a Land Grant Institution?

3. What is required of the new Master Gardener class to receive their certification?

Seed Starting

4. What would you recommend be used to provide for lighting for on an indoor seed starting structure?

5. Describe the process you might use, in order to have your homegrown tomato seedlings transplanted in the garden by Memorial Day including what date you would start the seeds to how you would go about it:
6. What is the purpose of providing “bottom heat” for seed starting and when would you begin using it and when would you stop?

Basic Soils

1. What methods would you use to maximize your soil health over the long term?

2. What constitutes the active and passive portions of soil organic matter and how would you manage both for optimum soil health?

3. What pH range is optimum for most vegetable garden crops?

4. What product would you add per your soil test results if you wish to lower your soil’s pH?

5. What are plant micronutrients and what strategy would you adopt in soil management to make sure your plants get an adequate supply?

6. A 50-pound bag of Jolly Farmer organic fertilizer is listed as 5-3-5. How many pounds of Phosphorus are in the bag?

7. CEC is (higher/lower) in a soil Sandy Soil with low Organic Matter, as compared to a Clayey Soil with high Organic Matter?

Home Composting

8. What factors are necessary to build a “hot” compost pile?
9. Describe what is meant by "C:N Ratio" in building a compost pile and what should you aim for?

10. What C:N ratios might you find in the following the raw materials?

   - Straw
   - Cow Manure
   - Grass Clippings
   - Fall Leaves
   - Kitchen scraps

   **Worm Composting**

   11. What kind of worms are used in vermicomposting?

   12. Describe the basics of setting up and managing a worm composting:

   **Botany for Gardeners**

   13. Describe 4 differences between monocots and dicots:

   14. A plant which lives three or more years, and in which the top part of the plant survives the winter and continues to grow the following season would be classified as a: (two words)

   ________________            ________________

   15. Hardy Kiwi is a (monoecious, dioecious, trioecious) plant and how did you determine that?
16. Diagram a flower and label the 4 major parts: Petals, Sepals, Stamens and Pistil:

17. Describe the basic life cycles of

   Annuals:
   Biennials:
   Perennials:

18. When you eat a potato are you consuming a leaf, stem or root (hint – does it have nodes)?

19. **Transpiration:**

   Please Describe how water:
   a. enters a plant:
   b. travels through it:
   c. is lost through evaporation/transpiration:

20. How do the following increase or decrease, evaporation/transpiration in plants?
   a) High Humidity
b) Windy conditions

c) Cloudy day

d) Cold Temperatures

Extra Credit: points for making Frank laugh

Thank You!