

2018 York County Master Gardener Open Book Review # 1



Due by Class on March 20

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 an email attachment or 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 herbicide 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 are the major problems a home gardener might encounter in raising transplants from seed in a sunny window in their home?

How would they resolve these challenges?

5. Describe the steps/procedures including time line for each step in producing homegrown tomato seedlings transplanted in the garden by Memorial Day:
6. What is the purpose of providing “bottom heat” for seed starting and when would you begin using it and when would you stop?

7. What is meant by “hardening off” in the seed starting process?

Basic Soils

8. Define Soil Texture:

9. Define Soil Structure:

10. What are the benefits of raw soil organic matter (living and dead)?

11. What are the benefits of adding humus soil organic matter (very dead)?

12. In your words, what is Cation Exchange Capacity?

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

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

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

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

17. 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

18. What factors are necessary to build a “hot” compost pile?

19. Describe what is meant by "C:N Ratio" in building a compost pile and what should you aim for?

20. What C:N ratios might you find in the following the raw materials?
 - Straw
 - Cow Manure
 - Grass Clippings
 - Fall Leaves
 - Kitchen scraps

Worm Composting

21. What kind of worms are used in vermicomposting?

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

Botany for Gardeners Part I.

23. Describe 4 differences between monocots and dicots:

24. 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)
_____.

25. Hardy Kiwi is a (monoecious, dioecious, trioecious) plant and how did you determine that?

26. Describe the basic life cycles of

Annuals:

Biennials:

Perennials:

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

28. Transpiration:

Please Describe how water:

a. enters a plant:

b. travels through it:

c. is lost through evaporation/transpiration:

29. How do the following increase or decrease, evaporation/transpiration in plants?

a) High Humidity

b) Windy conditions

c) Cloudy day

d) Cold Temperatures

Small Fruit

30. Please describe renovating a matted row system of strawberry production. When would you do it? What steps would you take, etc.?

31. Why, when and how do you mulch strawberries for the winter, and when would you remove it?

32. What pH range is best for growing strawberries?

33. The least expensive way to purchase new raspberry plants would be to purchase and plant (dormant canes/tissue culture plugs/potted plants)

34. Why is the newly arrived in Maine fruit fly, Spotted Wing Drosophila, a particularly difficult management problem for home gardeners and farmers?

35. What pH range do highbush blueberries grow best in?

36. Why do we recommend removing flower blossoms from newly planted highbush blueberries?

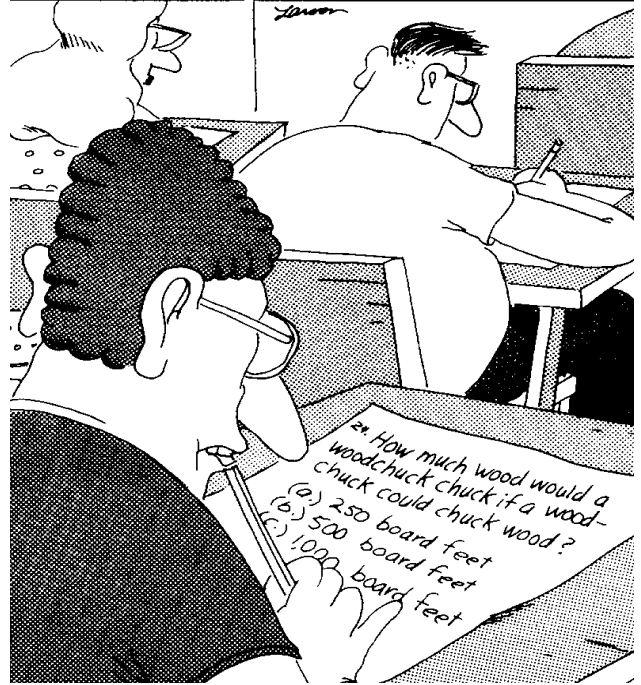
37. What types of grape varieties are hardiest for producing wine in Maine?

Good Agricultural Practices

38. What are the general guidelines in adding manure to a home garden?

39. List some important practices in harvesting and preparing garden produce with food safety in mind:

Extra Credit:
points for
making Frank
laugh



Thank You!