

2012 STATE FFA NURSERY LANDSCAPE KNOWLEDGE TEST

Directions: Read each question carefully and choose the best possible answer. If provided with Scantron sheets, bubble in the correct answer or place the answer in the answer form provided by the instructor. Each correct answer is worth ten points.

1. A part of the plant structure that food travels down to the root system:
 - A. Lenticel
 - B. Phleom
 - C. Cambium
 - D. Xylem
2. The two most important things that we receive from plants are:
 - A. Food and Clothing
 - B. Beauty and Food
 - C. Oxygen and Food
 - D. Shade and Food
3. Plants are easier to transplant if they have:
 - A. Single root
 - B. Large root system
 - C. A Tap root system
 - D. Fibrous root system
4. Which of the following is not a function of roots?
 - A. Manufacture of food
 - B. Storage of food
 - C. Anchoring of plants
 - D. Absorption of water
5. The smallest soil particle size is?
 - A. Clay
 - B. Sand
 - C. Silt
 - D. Organic matter
6. The most desirable soil for growing fescue lawn is:
 - A. Organic soil
 - B. Sandy soil
 - C. Loamy soil
 - D. Clay soil
7. Slow release fertilizer is:
 - A. Applied as a liquid
 - B. Is less expensive than regular fertilizer
 - C. Always incomplete
 - D. Becomes available to plants over a period of time

8. Molluscicides are chemicals used by nursery growers to control:
 - A. Aphids
 - B. Mildew
 - C. Moles
 - D. Slugs and Snails
9. A poinsettia flower is the:
 - A. Large blue flower at the terminal end of the plant
 - B. Large yellow flower at the terminal end of the plant
 - C. Small red flower at the terminal end of the plant
 - D. Small yellow flower at the terminal end of the plant
10. Shrubs such as roses that bloom on current seasons growth should be pruned:
 - A. Late winter or early spring
 - B. Early winter
 - C. Mid summer
 - D. Late summer
11. When developing land for a house on a flat site, a disadvantage of the site is:
 - A. Extra cost to excavate the site
 - B. More difficulty to prepare for footings
 - C. More difficult to remove excess water
 - D. Land is not suitable for family activities
12. A water sprinkler for irrigation applies 7 gallons per minute. How much water will it apply in 1 hour?
 - A. 520 gallons
 - B. 420 gallons
 - C. 320 gallons
 - D. 680 gallons
13. When using PVC pipe for irrigation, the strongest wall strength is:
 - A. 125 PSI
 - B. 140 PSI
 - C. 160 PSI
 - D. 200 PSI
14. In a trickle irrigation system installed underground
 - A. Has slower flow of water
 - B. Is applied directly near the root system
 - C. Looses less moisture to evaporation
 - D. All of the above
15. Wilting of plants occurs when:
 - A. The transpiration rate is greater than absorption rate of water
 - B. The transpiration rate is less than the absorption rate of water
 - C. When temperatures are cool
 - D. When moisture level in the soil is high

16. Turfgrasses are susceptible to damage by:
- A. Weeds
 - B. Insects
 - C. Thatch Buildup
 - D. All of the Above
17. Deep watering of the lawn promotes:
- A. Shallow rooting
 - B. Deep rooting
 - C. Greater insect infestation
 - D. Less frequent mowing
18. Reel mowers are recommended on short cut grasses such as:
- A. Fescue
 - B. Rye grass
 - C. Bentgrass
 - D. Bluegrass
19. What fertilizer analysis has a ratio of 1-2-2:
- A. 10-15-20
 - B. 10-20-20
 - C. 5-15-5
 - D. 17-17-17
20. A fifty pound bag of 16-8-12 analysis fertilizer contains _____ pounds of primary plant food Nutrients.
- A. 36 pounds
 - B. 50 pounds
 - C. 18 pounds
 - D. 24 pounds
21. Cool season grasses such as fescue should be fertilized:
- A. Early fall
 - B. Early winter
 - C. Late spring
 - D. Mid summer
22. An asexual method of plant propagation where a plant is rooted before being removed from the parent plant is:
- A. Cutting
 - B. Division
 - C. Air Layering
 - D. Grafting
23. When pruning using the heading back technique, the cut should be made:
- A. Near the base of the plant
 - B. Just above an outward-pointing bud a few inches from the top
 - C. At the tip end of the branch
 - D. On the base of the largest branch

24. Training a plant against a flat wall or trellis in a symmetrical pattern is an example of :
- A. Topiary pruning
 - B. Renewal pruning
 - C. Espalier pruning
 - D. Tinning out pruning
25. A sprayer used to apply herbicides should not be used to spray insecticides on crop plants because:
- A. It is difficult to clean all of the weed killer out of the sprayer.
 - B. Insecticides and weed killers do not mix
 - C. Weed killers may damage the sprayer
 - D. You may forget to clean the sprayer
26. A weed is a plant:
- A. Growing in the lawn
 - B. Growing where it is not wanted
 - C. Growing in the wild
 - D. That is not a food item
27. A landscaper wants to control weeds in a yard before he seeds the lawn. His best choice in a chemical would be:
- A. Post emergence chemical
 - B. Herbicide
 - C. Pre emergence herbicide
 - D. Non selective herbicide
28. Ground covers are used to:
- A. Fill bare spots in the landscape
 - B. Cover steep banks
 - C. Fill in shady spots under trees
 - D. All of the above
29. After bulbs such as tulips have been planted for years, they should be fertilized with a complete fertilizer.
- A. Just before plant growth starts
 - B. Just before plants bloom
 - C. Just after plants have bloomed
 - D. Just after foliage dies back
30. Symmetrical balance is achieved in landscaping when:
- A. All plants are the same size
 - B. Pattern and type of plants on each side of an entrance are the same on both sides
 - C. Two large plants are used on one side and four plants are used on the other side.
 - D. None of the above
31. Which of these plants is deciduous?
- A. Camellia
 - B. Helleri Holly
 - C. Forsythia
 - D. Gardenia

32. The basic unit of growth in plants is the:
- A. Flower
 - B. Root
 - C. Phloem
 - D. Cell
33. In landscaping mulch is **not use** to:
- A. Control weeds
 - B. To reduce water loss
 - C. Keep nutrients in the soil
 - D. Prevent erosion
34. Plant texture is the appearance of a plant in terms of being course or fine. An example of a course textured plant is;
- A. Glossy Abelia
 - B. Magnolia
 - C. Nandina
 - D. Privet
35. Bedding plant seedlings should be held by the leaves when being transplanted to:
- A. Avoid injury to the stem
 - B. Damaging the flowers
 - C. Eliminate root rot
 - D. Pulling off dead leaves
36. The genus name for the red maple is:
- A. Ilex
 - B. Pinus
 - C. Prunus
 - D. Acer
37. The most desirable time to plant a bare root crab apple tree is when:
- A. Actively growing
 - B. Dormant
 - C. Early Summer
 - D. Late Summer
38. When selecting a plant for the landscape that will bloom and provide early spring color is:
- A. Sasanqua Camellia
 - B. Hydrangea
 - C. Azalea
 - D. Boxwood
39. Potted chrysanthemums are treated with B-Nine after pinching to control height. It is applied:
- A. As a foliar spray 2 weeks after pinching
 - B. By mixing it with the medium before planting
 - C. With the fertilizer
 - D. As a soil drench

40. Landscapers often use enclosure fences in the landscape. Which is **not** a purpose:
- A. Screen objectionable views
 - B. Mark property lines
 - C. Provide security for children and pets
 - D. Control water run off
41. When installing wood fence post are made secure by:
- A. Using a level to plumb the post
 - B. Digging a post hole two times larger than the post
 - C. Filling the open space in the hole with dry concrete and tamping it into the hole
 - D. Tamping soil back in the open space in the hole.
42. John has transplanted 5 ball and burlap trees in the landscape. The best way to ensure that they survive the first year is:
- A. Keep the soil moisture level high and stake the trees.
 - B. Apply a complete fertilizer around the trees in July or August
 - C. Prune of one half of the top growth
 - D. Apply lime to the soil around the tree.
43. Mark has a fescue lawn. During the mowing season he observes that several species of broad leaf weeds are in the lawn. What chemical pesticide should he used to control the weeds.
- A. Roundup
 - B. 2 4-D
 - C. Sevin
 - D. Captan
44. What are important considerations when selecting perennials to use in the landscape.
- A. Height and Color
 - B. Time of bloom and color of flower
 - C. Soil fertility and soil drainage
 - D. All of these
45. Brian is a plant biologist that has introduced several new plants into the area. They would be Classified as:
- A. Individualized plants
 - B. Native plants
 - C. Exotic plants
 - D. Orientation plants
46. Lawn grasses are not recommended in the landscape, when there is more than:
- A. 20% shade
 - B. 30% shade
 - C. 40% shade
 - D. 50% shade

47. Which expense would not be considered a business expense for a landscape contractor?
- A. A telephone for family use
 - B. Labor expense
 - C. Rental of a tractor
 - D. Mulch purchased for a landscape job
48. A topographic map is designed to show:
- A. The elevation of the plot
 - B. The water level of the plot
 - C. Indicate the location of the trees on the plot
 - D. Show the property corners
49. Foundation planting are plants that are located:
- A. Adjacent to the house
 - B. In the recreation area
 - C. In front yard near the house
 - D. Plants at the property line
50. The last step in finalizing the landscape project development is to:
- A. Determine the need or objective
 - B. Bill the customer for work done
 - C. Develop a maintenance schedule
 - D. Subcontract pest maintenance