

KEY

Tarleton State University 2017 Area CDE Event  
Nursery & Landscape Contest  
Exam

1. B&B in the nursery/landscape trade means:
  - a. Bagged in burlap
  - b. Burlapped in a bag
  - c. Balled and burlapped
  - d. Bare-rooted and bagged
  
2. Divide and separate fall blooming perennials:
  - a. In early spring
  - b. In late spring
  - c. Mid summer
  - d. Early fall
  
3. Which landscape tool is used to prune branches an inch or larger in diameter?
  - a. pruning saw
  - b. hand pruner
  - c. ax
  - d. pruning knife
  
4. Many insect traps attract insects with:
  - a. Pheromones
  - b. A strong insecticide
  - c. Fresh flowers
  - d. Dried flowers
  
5. The best time to spray a glyphosate is:
  - a. Just before a rain
  - b. When weeds are in active growth
  - c. Just before weed seeds germinate
  - d. When weed growth is mature
  
6. Freshly cut bark chips and sawdust should not be used as a soil amendment because they
  - a. are infested with disease
  - b. release toxic elements into the soil
  - c. rob the soil of nitrogen during decomposition
  - d. hold too much water around the plant
  
7. The practice of manually watering a container plant until water comes out of the drainage holes of the container is effective for helping to reduce the buildup of in the growing medium.
  - a. Pathogens
  - b. Soluble salts
  - c. Pesticides
  - d. Herbicide

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8. A scale of 1:20 means that:
  - a. 1" of blueprint equals 30" in the landscape
  - b. 5' of landscape equals 6" of blueprint
  - c. 2' of landscape equals 1 1/2" of blueprint
  - d. 1" of blueprint equals 20' in the landscape
  
9. To make the living area of a landscape appear larger, a designer should include plants that feature:
  - a. Warm-colored flowers such as reds, oranges, yellows
  - b. Cool-colored flowers such as blues, purples, lavenders
  - c. A combination of warm- and cool-colored flowers
  - d. All white flowers
  
10. The soil pH level primarily controls:
  - a. Moisture absorption by roots
  - b. Activity of soil-borne diseases
  - c. Soil temperature
  - d. Availability of essential plant nutrients
  
11. A major advantage for producing nursery stock in containers is that it:
  - a. Requires less labor than field-grown crops
  - b. Allows for transplanting any time during the growing season
  - c. Requires less water and fertilization than field-grown crops
  - d. Is less expensive than growing in nursery fields
  
12. Which of the following government organizations would want to talk to you if you shipped nursery plants across state lines without a license?
  - a. OSHA
  - b. FBI
  - c. USDA
  - d. IRS
  
13. Plowing or tilling a bed or lawn when it is excessively wet may:
  - a. Damage the structure of the soil
  - b. Change the soil texture
  - c. Stratify the soil
  - d. Kill beneficial organisms in the soil
  
14. Lawn sprinkler systems are installed so they provide even coverage. This is accomplished by:
  - a. Spacing sprinklers based on needs specified in the soil test
  - b. Using sprinkler heads with a square pattern throughout the landscape
  - c. Spacing the heads so that each sprinkler sprays to the next sprinkler
  - d. Using one size pipe throughout the landscape
  
15. When mowing turf, it is recommended that no more than \_\_\_\_ of the leaf blade be removed at each cutting.
  - a. two thirds
  - b. one half
  - c. one eighth
  - d. one third

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16. A friable soil is one that:
- Requires humus and fertilizer to be productive
  - Is loose and of good structure and texture
  - Is high in clay particles
  - Is rich in N, P, and K
17. \_\_\_\_\_ drawings show an object as seen by the eyes at eye-level.
- Plan
  - Base map
  - Section
  - Perspective
18. Fred was about to drive the tractor down the street to another landscape job when Alan said, "Hey, you had better put that orange triangle on the back of that tractor before you get run-over." Alan was referring to the:
- Farm vehicle sign
  - Slow-moving vehicle sign
  - Emergency vehicle sign
  - Wide-load sign
19. A layer of partially decomposed stems, roots, and leaves of grass which develops above the soil's surface in the lawn is called
- mulch
  - inorganic matter
  - mineral matter
  - thatch
20. Which of the following plants is commonly grafted or budded?
- Roses
  - Pansy
  - Yew
  - Gingko
21. There are five common methods of night lighting for landscapes. They are:
- Moderate, bright, dim, regular, and flash lighting
  - Cross, down, up, reverse, and slope lighting
  - Bright, dim, subdued, marginal, and transparent lighting
  - Walk, silhouette, shadow, up, and down lighting
22. Which of the following is a major reason for mulching landscape plants?
- Supplies nutrients
  - Increases anti-aerobic activity in the soil
  - Attracts earthworms
  - Moderates soil temperature and conserves soil moisture

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23. Which of the following statements is NOT true?
- The heat given off from water sprinkled over plants may prevent frost from forming if the temperature is only slightly below freezing.
  - Frost is most likely to form when there is low, heavy cloud cover and a slight cool breeze.
  - Frost is more likely to form in low lying areas or pockets, when temperatures are at the freezing point
  - Frost may form if the sky is clear, the air is calm and the night temperature is only slightly below freezing?
24. The most common synthetic root-promoting chemicals used in rooting hormones are:
- IBA and NAA
  - IBA and AAN
  - ISO and OSB
  - CCA and ACD
25. Which of the following grasses has the longest winter dormancy period?
- Aphids
  - Scale
  - Bluegrass
  - Zoysia
26. In the plant name *Ilex x meserveae* 'Blue Princess':
- The family is *Ilex*, the "x" means it is a tetraploid, the genus is *meserveae*, and the species is Blue Princess.
  - The genus is *Ilex*, the "x" means that it is patented, the species is *meserveae*, and Blue Princess is the variety.
  - The genus is *Ilex*, the "x" means it is a hybrid, the species is *meserveae*, and the cultivar is Blue Princess.
  - The species is Blue Princess, the "x" means that its origin is unknown, the variety is *meserveae*, and the genus is *Ilex*.
27. What is one reason midday watering of lawns in the summer is usually not recommended?
- Fast evaporation of water from plant leaves may cause disease
  - Homeowners pay a premium for water if they irrigate between the hours of 8 a.m. and 5 p.m.
  - Plant roots do not readily absorb water during the daylight hours
  - Much of the water is lost through evaporation
28. A landscape designer uses many \_\_\_\_\_ in developing the preliminary design for a project.
- Bubble diagrams
  - Problem statements
  - Perfect plans
  - Site surveys
29. Professional-grade string trimmers are usually powered by:
- Diesel fuel
  - Electricity
  - A 2-cycle engine
  - A 4-cycle engine

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30. Soil texture refers to:
- The amount of humus in the soil
  - The size of the soil particles
  - The ratio of sand to clay in the soil
  - The arrangement of soil particles
31. In nursery production, a “liner” refers to
- A plastic mulch covering
  - A rooted cutting or small seedling
  - A plastic bag
  - A type of garden tool
32. Plants that have been clipped or pruned into two-dimensional forms are:
- Balanced
  - Dynamic
  - Espalier
  - Topiary
33. The basic underlying principle of using a mist propagation system is that it\_\_\_\_\_.
- Keeps the plant material cool
  - Increases humidity around the cutting and reduces transpiration
  - Cools the propagation medium to promote root formation and development
  - Keeps the propagation medium uniformly moist and supplies moisture to the base of the cuttings
34. One of the best ways to speed up the rooting process of cuttings is to:
- Always take cuttings after midday
  - Provide bottom heat
  - Keep the soil cool and the foliage warm
  - Harden them off by laying them out to dry a few days before sticking
35. Which type of insecticide would be most effective against sucking-type insects?
- Aerosol
  - Contact
  - Systemic
  - Dust
36. Failure to firm down the soil around a newly planted tree or shrub can result in air pockets. This may cause:
- Drying of plant roots
  - Disease
  - Over-watering problems
  - Soil heaving in winter
37. If a container-grown nursery crop has been over watered for a long period, a grower might expect to find the roots in the following condition:
- The roots dead or absent at the top of the container but healthier in the bottom of the container
  - The roots may be extra thick and bright white in color
  - The roots growing through the drain holes in the bottom of the container
  - The roots dead or absent at the bottom of the container but healthier in the top portion of the container

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38. Lowering the soil grade around a tree removes many of the tree's \_\_\_\_\_ roots.
- Feeder
  - aquatic
  - Aerial
  - Tap
39. Trees are fertilized with granular fertilizer by spreading it within
- A thirty foot radius of the trunk
  - A four foot radius of the trunk
  - The drip line
  - The drip line and at least ten feet beyond the drip line
40. Plants that use less water and are tolerant of dry landscape sites are called:
- Xerophytes
  - Monoecious
  - Epiphytes
  - Dryophytes
41. The following plant grows from a tuber:
- Celosia
  - Impatiens
  - Elephant Ear
  - Japanese honeysuckle
42. Shrubs planted in small groups in the landscape are generally placed in:
- Even numbered groups (2, 4, 6)
  - Groups of 4
  - Odd numbered groups (i.e. 3,5,7)
  - Groups of 2
43. Which tree has the finest textured foliage?
- Mesquite
  - Sycamore
  - Sweet gum
  - Southern magnolia
44. A is a woody perennial that has more than one main trunk.
- Weed
  - Tree
  - Flower
  - Shrub
45. Plants sold in the landscape trade are sold by \_\_\_\_\_ name.
- Order and family
  - Order and genus
  - Family
  - Botanical

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46. Which of the following groups contains only evergreen plants?
- Bald cypress, Purpleleaf plum, Pecan
  - Sweet gum, Crape myrtle, Sycamore
  - American arborvitae, Camellia, Japanese Yew
  - Azalea, Ginkgo, Chinese Holly
47. The use of plant materials and landscaping techniques to conserve soil moisture and to reduce water usage is:
- Natural landscaping
  - Waterscaping
  - Xeriscaping
  - Bogscaping
48. Liriope and Ajuga are generally classified as:
- Groundcovers
  - Small flowering shrubs
  - Small evergreen shrubs
  - Semi-evergreen shrubs
49. A shade loving border plant is:
- Zinnia
  - Impatiens
  - Marigold
  - Chrysanthemum
50. Clay soils require:
- About the same time for absorption of irrigation water as sandy soils
  - A shorter time for absorption of irrigation water than sandy soils
  - More or less time for absorption than sandy soils, depending on the pH of the clay
  - A longer time for absorption of irrigation water than sandy soils