

**Tarleton State University 2022 Invitational CDE Nursery & Landscape Exam**

1. Water \_\_\_ to help reduce disease in nursery crops.
  - A. Late in the afternoon
  - B. Early in the morning
  - C. At night
  - D. With overhead sprinklers
2. Fairy ring in turfgrass is caused by:
  - A. Nematodes
  - B. Pollen
  - C. Grubs
  - D. Fungi
3. A \_\_\_ is a landscape designer's tool for drawing circles on a landscape plan.
  - A. Circle template
  - B. Scale
  - C. Protractor
  - D. T-square
4. \_\_\_\_\_ drawings show an object as seen by the eyes at eye-level.
  - A. Section
  - B. Base map
  - C. Perspective
  - D. Plan
5. Which is most likely not a benefit from using mulch?
  - A. Moderated soil temperatures
  - B. Reduced disease
  - C. Reduced water loss from the soil
  - D. Reduced insects
6. When taking a soil sample, be sure to take cores at least \_\_\_ inches deep.
  - A. 2
  - B. 3
  - C. 6
  - D. 14
7. Wisteria, Campsis radicans, and Japanese honeysuckle are examples of:
  - A. Vines
  - B. Shrubs
  - C. Groundcovers
  - D. Trees
8. Which one of the following plant hardiness zones is colder than Zone 6?
  - A. Zone 10
  - B. Zone 3
  - C. Zone 8
  - D. Zone 7
9. The turfgrass least tolerant of shade is:
  - A. Zoysia
  - B. Fescue
  - C. St. Augustine
  - D. Bermudagrass
10. Which of the following is an indication of a fertile soil?
  - A. Grubs
  - B. Earthworms
  - C. A grey or yellow subsoil
  - D. Small brown pebbles
11. Soil texture refers to:
  - A. The arrangement of soil particles
  - B. The ratio of sand to clay in the soil
  - C. The size of the soil particles
  - D. The amount of humus in the soil
12. Which fuel is used in chainsaws, string trimmers, and other 2-cycle engines?
  - A. Gasoline and oil mix
  - B. Diesel
  - C. Gasoline
  - D. Fuel oil
13. Leaves that show interveinal chlorosis probably suffer from:
  - A. Iron deficiency
  - B. Water Stress
  - C. Nitrogen excess
  - D. Chlorine damage

**Tarleton State University 2022 Invitational CDE Nursery & Landscape Exam**

14. Which plant is a vine?  
A. Pinus thunbergiana  
B. Ficus benjamina  
C. Ilex cornuta  
D. Lonicera japonica
15. Which tree has the finest textured foliage?  
A. Sycamore  
B. Bald Cypress  
C. Sweet gum  
D. Southern magnolia
16. Landscape plans generally include all of the following except:  
A. A north orientation marker  
B. The mature height of the plant  
C. The mature width of the plant  
D. The number of each type of plant to be planted
17. Plants need \_\_\_ essential elements for proper growth and development.  
A. 3  
B. 8  
C. 17  
D. 32
18. Cuttings in the rooting bench should be:  
A. Kept dry during the day and moist at night  
B. Scarified before watering  
C. Fertilized regularly  
D. Kept constantly moist
19. A financial plan for the future is called a \_\_\_\_\_.  
A. Budget  
B. Deed  
C. Cash analysis  
D. Net worth statement
20. Food produced in the leaves moves to other parts of a plant through the:  
A. Veins  
B. Xylem  
C. Phloem  
D. Arteries
21. Which of the following is not used to power string trimmers:  
A. A 4-cycle engine  
B. A 2-cycle engine  
C. Electricity/Battery  
D. Diesel fuel
22. Brown patch, dollar spot, and gray snow mold are all diseases of:  
A. Turfgrasses  
B. Evergreens  
C. Trees  
D. Azaleas
23. PVC pipe used for irrigation is connected to couplings and fittings that are \_\_\_ to the pipe.  
A. Soldering  
B. Clamped  
C. Wired  
D. Solvent Welded
24. Which LD-50 rating listed is the most potentially lethal to a human, based on animal studies?  
A. 945  
B. 84  
C. 1750  
D. 10000
25. When planting a bare-rooted tree, the tree should be planted:  
A. Directly even with the original soil level  
B. At 2 inches above the original soil level  
C. At 6 inches above the original soil level  
D. At 6 inches below the original soil level

**Tarleton State University 2022 Invitational CDE Nursery & Landscape Exam**

26. Callus is a term usually referring to:
- A. The tissue on the collar of a limb
  - B. Deformed growth on plant limbs
  - C. The first tissue to develop on a cutting just before the roots form
  - D. A disease of plant leaves and limbs
27. Training plants into three-dimensional ornamental forms, such as animals, is called:
- A. Bonsai
  - B. Topiary
  - C. Espalier
  - D. Heading back
28. The soil pH level primarily controls:
- A. Soil temperature
  - B. Moisture absorption by roots
  - C. Activity of soil-borne diseases
  - D. Availability of essential plant nutrients
29. Which of the following is a deciduous vine?
- A. Chinese wisteria
  - B. Rosemary
  - C. Mandevilla
  - D. English Ivy
30. Larger nursery pots are measured by the:
- A. Inch
  - B. Height
  - C. Ounce
  - D. Gallon
31. Natural soil is arranged in layers referred to as:
- A. Soil rings
  - B. Soil texture
  - C. Soil horizons
  - D. Sand, silt, and clay
32. A \_\_\_\_ is a woody perennial that has more than one main trunk.
- A. Tree
  - B. Shrub
  - C. Weed
  - D. Flower
33. Leaf miners lay their eggs:
- A. On the main stem
  - B. On top of the leaves
  - C. On flower buds
  - D. Inside the leaves
34. \_\_\_\_ is an example of a parasitic plant
- A. Mistletoe
  - B. Mildew
  - C. Rust
  - D. Bacteria
35. Fertilizers should be added to soil
- A. At ½ the rate of fertilizer
  - B. Every year
  - C. Based on soil test results
  - D. According to the package instructions and only in the water
36. Which of the following plants is commonly grafted or budded?
- A. Gingko
  - B. Yew
  - C. Pansy
  - D. Roses
37. The “puff balls” found on dandelions that are easily blown away by the wind, are actually:
- A. Sepals
  - B. Seeds
  - C. Spores
  - D. Anthers
38. Some vines use \_\_\_\_ to support themselves as they climb.
- A. Tendrils
  - B. Aquatic roots
  - C. Stems
  - D. Tap roots

**Tarleton State University 2022 Invitational CDE Nursery & Landscape Exam**

39. Plants sold in the landscape trade are sold by \_\_\_\_\_ name.
- A. Order and genus
  - B. Order and family
  - C. Botanical
  - D. Family
40. The hardscape in a landscape design is defined as:
- A. The initial, rough landscape drawing
  - B. A pace with a large area of concrete
  - C. Structures, paving, fencing, etc, incorporating into a landscape
  - D. Landscapes filled with mostly hardwoods
41. Some of the salt buildup in containerized plants can be removed by:
- A. Adding fertilizer
  - B. Withholding water
  - C. Adding lime to the irrigation water
  - D. Leaching
42. Warm season turf grasses include which of the following?
- A. Bluegrass
  - B. Bermudagrass
  - C. Fescue
  - D. Ryegrass
43. One function of stomates is to:
- A. Prevent disease
  - B. Photosynthesize
  - C. Produce pollen
  - D. Give off water vapor
44. A shade loving border plant is:
- A. Impatiens
  - B. Zinnia
  - C. Marigold
  - D. Chrysanthemum
45. The three major divisions of a soil profile are:
- A. Mulch, clay, and parent material
  - B. Topsoil, subsoil, and bedrock
  - C. Topsoil, subsoil, and parent material
  - D. Topsoil, clay layer, and rock layer
46. B&B in the nursery/landscape trade means:
- A. Bagged in burlap
  - B. Balled and burlapped
  - C. Bare-rooted and bagged
  - D. Burlapped in a bag
47. Similar to the textural appearance of plants, \_\_\_\_\_ can be used to create spatial illusions in a perennial garden.
- A. Staking
  - B. Shape
  - C. Color
  - D. Plant growth rate
48. A plant pathologist studies plant:
- A. Diseases
  - B. Morphology
  - C. Physiology
  - D. Insects
49. Liriope and Ajuga are generally classified as:
- A. Groundcovers
  - B. Semi-evergreen shrubs
  - C. Small flowering shrubs
  - D. Small evergreen shrubs
50. Once they are beneath the bark surface, \_\_\_\_\_ are difficult to control.
- A. Thrips
  - B. Mealybugs
  - C. Aphids
  - D. Borers