

KEY Tarleton State University Nursery/Landscape CDE Exam

YOU MAY WRITE ON AND KEEP THIS EXAM

- Which of the following definitions best describes "auxin?"
 - A naturally occurring plant hormone that promotes plant growth
 - A naturally occurring plant chemical produced to deter disease organisms
 - The capital of Texas and the home of the USDA
 - A chemical used as a plant growth retardant
- Plants that use less water and are tolerant of dry landscape sites are called:
 - Monoecious
 - Epiphytes
 - Xerophytes
 - Dryophytes
- When selecting ginkgo trees for the home landscape, you should choose:
 - Female trees only
 - Male and female trees
 - Mature female trees only
 - Male trees only
- A shade loving border plant is:
 - Zinnia
 - Chrysanthemum
 - Marigold
 - Impatiens
- Fertilizers should be added to soil
 - every year
 - at 1/2 the rate of fertilizer
 - based on soil test results
 - according to the package instructions and only in the water
- A post-emergent herbicide is applied
 - just as the weed seeds are germinating
 - after the weeds have germinated and emerged from the soil
 - before the weed seeds germinate
 - to broadleaf weeds only
- Benefits of landscaping include which of the following?
 - absorbing pollution from the air and reducing noise levels
 - cooling of air and providing oxygen
 - filtering of water and prevention of erosion
 - landscaping does all of these
- In a landscape design, properly located plants and structures.
 - Block the view of the front door
 - Can reduce heat intensity
 - Need to be constantly pruned and maintained
 - Are not essential for a good landscape design
- Which of the following best describes seed scarification?
 - removing some of the seed coat with a file, sandpaper, or acid solution
 - placing seed capsules in the sun for natural drying
 - planting seeds in a nursery flat to a depth of two times the seed's diameter
 - using a dibble to spot off newly planted seedlings
- What is the function of the axillary bud on the stem?
 - To produce a new leaf or stem
 - To provide food storage
 - To help heal wounds of the plant
 - To aid in seed dispersal
- Clay soils require:
 - More or less time for absorption than sandy soils, depending on the pH of the clay
 - About the same time for absorption of irrigation water as sandy soils
 - A longer time for absorption of irrigation water than sandy soils
 - A shorter time for absorption of irrigation water than sandy soils
- Site features to consider when conducting a site survey include:
 - Topography, soil conditions, natural features, and existing vegetation
 - Natural features, climate, existing vegetation, and client analysis
 - Natural features, existing vegetation, soil conditions, and client analysis
 - Topography, client analysis, natural features, and climate
- A landscape designer uses many _____ in developing the preliminary design for a project.
 - Perfect plans
 - Site surveys
 - Bubble diagrams
 - Problem statements

14. Which of the following is important in producing a uniform size and quality container grown nursery crop?
- A Tamp the soil to the same degree of firmness in each pot
 - B Leave a uniform water space at the top of each crop
 - C Use the same soil mix for the entire crop
 - D** All of these
15. A landscaper says that the soil at a home development site will not perk. What does that mean?
- A The soil does not have proper form to resist slipping and cracking
 - B The soil particles do not form proper aggregates
 - C It will not crack in very cold weather
 - D** Water does not pass through the soil at an acceptable rate
16. Soil texture refers to:
- A** The size of the soil particles
 - B The ratio of sand to clay in the soil
 - C The arrangement of soil particles
 - D The amount of humus in the soil
17. A plant that remains vegetative during its first season of growth and flowers in the second season is a(n):
- A Annual
 - B** Biennial
 - C Perennial
 - D Propagule
18. The viability of a group of seeds is measured by:
- A Maturity of the seeds
 - B Permeability of the seeds
 - C** The germination percentage
 - D The number of seeds per pound
19. Which of the following is a group of terms related to landscape design principles?
- A Stratify, random, curvature
 - B Thresh, rounding, complexity
 - C** Focalization, proportion, simplicity
 - D Hogarth, symmetrical, curvature
20. To preserve the germination ability of most seeds, store them in a:
- A** Cool, dry environment
 - B Warm, dry environment
 - C Cool environment after scarification
 - D Warm, moist environment after stratification
21. In most plants, a hormone called auxin is produced by the terminal bud. It moves downward into the shoot and inhibits the growth and development of lateral buds. This is called:
- A Terminal bud inhibition
 - B The apex auxin complex
 - C Lateral dominance
 - D** Apical dominance
22. Which of the following is a major reason for mulching landscape plants?
- A Increases anti-aerobic activity in the soil
 - B Attracts earthworms
 - C** Moderates soil temperature and conserves soil moisture
 - D Supplies nutrients
23. When planting a bare-rooted tree, the tree should be planted:
- A At 2 inches above the original soil level
 - B At 6 inches above the original soil level
 - C At 6 inches below the original soil level
 - D** Directly even with the original soil level
24. What type of watering conditions would cause the clustering of turf grass roots at the top of the soil? Assume that there has been little or no rainfall.
- A rarely watering
 - B** frequent, light watering
 - C applied once a week
 - D infrequent soaking
25. Generally, during the summer months in Texas, a lawn needs about ____ inch(es) of water a week, either as rain or irrigation.
- A** 1
 - B 2
 - C 3
 - D 4
26. The best definition of a surfactant is a:
- A Material to protect leaf surfaces from pesticides by creating a waxy seal over the leaf
 - B** Material added to a liquid spray solution to reduce surface tension between the liquid and leaf surface
 - C Type of pesticide formulation with an oily consistency for protecting high pressure spray nozzles from wear
 - D Type of soap used to wash off pesticide residue by increasing surface tension between the leaf and residue

27. A landscaper has to decide whether to put in a groundcover instead of turfgrass on a site with the following characteristics. Which characteristic is the most important factor in making this decision?
- A The site faces East
 - B** The landscape area has a 25% slope
 - C The site has only 3 inches of topsoil
 - D The site is in full sun
28. Plants that evolve and grow naturally in an area are termed _____ plants
- A Accent
 - B Exotic
 - C Specimen
 - D** Native
29. Which of the following is an indication of a fertile soil?
- A grubs
 - B small brown pebbles
 - C** earthworms
 - D a grey or yellow subsoil
30. Informal landscapes:
- A** Are constructed with asymmetrical balance and curved lines
 - B Contain geometric patterns and perfect balance
 - C Include sheared and sculpted hedges
 - D Usually contain straight, not curved, lines
31. Which of the following is not a rule-of-thumb traditionally followed by landscapers?
- A Home walkways should be wide enough for 2 people to walk side by side
 - B Landscape plants should be dry at night, if possible.
 - C Shrubs should be no closer than 2.5-3 feet from the foundation
 - D** Shrubs should be planted 6-12" from the foundation
32. Dead, decaying plant and animal material in the soil is referred to as
- A soil texture
 - B the microorganisms that are present in the soil
 - C** organic matter
 - D soil reaction
33. Natural soil is arranged in layers referred to as
- A sand, silt and clay
 - B soil rings
 - C** soil horizons
 - D soil texture
34. An important step in properly composting landscape refuse is to:
- A Make only small piles to keep the material cool
 - B** Thoroughly moisten each layer of material
 - C Exclude as much air as possible from the compost pile
 - D Treat each layer with pesticide to control insects and weeds
35. The recommended minimum width for a residential walkway in the public area of the landscape is feet.
- A 6.5
 - B 5
 - C 7.5
 - D** 3.5
36. There are five common methods of night lighting for landscapes. They are:
- A** Walk, silhouette, shadow, up, and down lighting
 - B Cross, down, up, reverse, and slope lighting
 - C Moderate, bright, dim, regular, and flash lighting
 - D Bright, dim, subdued, marginal, and transparent lighting
37. The term is used in horticulture to define plant injury sometimes caused by pesticides:
- A Eutrophication
 - B Expectoration
 - C** Phytotoxicity
 - D Emulsification
38. A transplanted tree or shrub should be set into the ground:
- A With the top of the container slightly covered
 - B** At the same depth at which it was originally growing
 - C 50 percent deeper than it was originally planted
 - D So that the top roots are exposed to the air
39. Soil around the foundation of a house is often more alkaline than surrounding soil due to which of the following?
- A** leaching from the masonry mortar on the home and the masonry debris from construction
 - B leaching from the home's paint
 - C decaying wood scraps that were buried around the foundation during construction
 - D chemicals applied to prevent termites

40. Horticultural chemicals should be stored in which of the following?
- A A cool room such as the basement of a house
 - B A refrigerated storage cabinet
 - C** A free-standing, locked building
 - D The garage refrigerator
41. Mrs. Thompson loves spring flowering bulbs. Which of the following would you suggest for Mrs. Thompson to plant?
- A Gardenia jasminoides
 - B** Hyacinthus orientalis cv.
 - C Coleus x hybridus
 - D Lonicera japonica
42. Some plants can release chemicals into the soil that inhibit or stop growth of plants in the surrounding soil. The effect is called _____.
- A Reduction Oxidation
 - B Hormonal Redaction
 - C** Allelopathy
 - D Chemical Sympathy
43. Low-growing landscape plants should:
- A** Be placed in front of intermediate growing plants
 - B Be placed behind intermediate growing plants
 - C Be planted under large trees
 - D Not be used in the landscape
44. Tree roots that are responsible for most nutrient uptake are found
- A outside the dripline
 - B between 18" and 28" in depth
 - C within the upper 8" of topsoil
 - D** in the subsoil
45. Which is the best definition of the term understory, as used in landscaping?
- A shrubs and other plants planted under the eaves of a house
 - B the basement of a two-story house
 - C the bottom level of a two-story house
 - D** smaller plants that grow under the canopy of a tree
46. Some seeds are produced in the fall and remain on or in the ground until they germinate in the spring. Exposing seeds to the winter cold and moist soil is nature's method of:
- A Acidifying
 - B** Stratifying
 - C Scarifying
 - D Sporulating
47. When installing a landscape, which step (from the following list) should be completed FIRST:
- A** Install the drainage system
 - B Plant the trees and shrubs
 - C Build retaining walls and garden walkways
 - D Add amendments to the soil
48. The most commonly used lawn grasses used in the U.S. can be divided into ___ or ___ types.
- A grasses or broadleaved
 - B spring or summer
 - C perennials or annuals
 - D** warm season or cool season
49. Which is most likely not a benefit from using mulch?
- A** Reduced insects
 - B Reduced water loss from the soil
 - C Reduced disease
 - D Moderated soil temperatures
50. A is a woody perennial that has more than one main trunk.
- A Tree
 - B Weed
 - C** Shrub
 - D Flower