

Nursery-Landscape CDE Test Bank B

Multiple Choice

Identify the choice that best completes the statement or answers the question.

- ___ 1. Many landscape equipment engines require a little extra fuel in the carburetor to start. Most models use a(n) _____ to supply the extra fuel for starting.
- a. exhaust valve or flywheel
 - b. primer bulb or choke
 - c. fuel cell or fuel slide
 - d. cylinder or fuel ring
- ___ 2. Knowing where underground utility lines are buried before starting a landscape digging project helps prevent injury as well as penalties and repair charges. The national telephone number for the “Call Before You Dig” program is:
- a. 616
 - b. 811
 - c. 901
 - d. 911
- ___ 3. Two of the most pressing current issues for the landscape maintenance industry include:
- a. the exotic garden spider and Japanese ladybugs
 - b. turf decline and herbicide resistance
 - c. emissions and noise pollution
 - d. power blower and string trimmer safety
- ___ 4. A hardwood stem cutting normally needs _____ to root.
- a. at least one node above the soil and one below the soil
 - b. all nodes below soil level
 - c. all nodes above the soil
 - d. one node and leaf above the soil and at least three nodes below the soil
- ___ 5. Lopping shears can be used to cut off limbs up to about ___ inches in diameter.
- a. .5
 - b. .75
 - c. 1.5
 - d. 3
- ___ 6. The water table should be _____ of the soil surface for most plants growing in the landscape.
- a. within 24 inches
 - b. within 12 inches
 - c. between 18 and 24 inches
 - d. well below 24 inches
- ___ 7. Polyvinyl chloride pipe is put together in irrigation systems using _____.
- a. wire clamps
 - b. solder
 - c. filler
 - d. glue
- ___ 8. The practice of growing and using plants for decorative purposes is known as:
- a. decorative floriculture
 - b. aesthetic forestry
 - c. landscape botany
 - d. ornamental horticulture
- ___ 9. Which of the following is true about balled and burlapped plants?
- a. Plants are dug bare-root and wrapped in burlap
 - b. plants are dug bare-root, wrapped in a peat-lite mixture and covered in burlap
 - c. Balled and burlapped plants have an intact root ball of native soil
 - d. Baling and burlapping is most commonly used on container-grown shrubs
- ___ 10. One of the best landscape plants for great fall leaf color is:
- a. *Quercus rubra*
 - b. *Juniperus chinensis*
 - c. *Pinus strobus*
 - d. *Acer saccharum*

- ___ 11. Which type of mower would generally make the cleanest cut and would allow the turf to be cut lowest?
- a. vertical mower
 - b. rotary mower
 - c. reel mower
 - d. flail mower
- ___ 12. Which nutrient is most easily lost from the soil?
- a. nitrogen
 - b. phosphorous
 - c. iron
 - d. calcium
- ___ 13. Plant containers in the nursery trade are generally measured by the:
- a. liter
 - b. height
 - c. circumference
 - d. gallon
- ___ 14. Which of the following states are all among the top 10 nursery plant producing states?
- a. California, Florida, Texas
 - b. Montana, Idaho, Virginia
 - c. Alaska, Georgia, New Hampshire
 - d. Hawaii, Utah, New Mexico
- ___ 15. Which of these is not a horticulture term?
- a. grafting
 - b. pinching
 - c. whey
 - d. corolla
- ___ 16. Spark plugs are best removed from a mower engine with:
- a. a spark plug gape
 - b. pistol-grip pliers
 - c. a spark plug socket
 - d. an open-end wrench
- ___ 17. In landscaping, staking and _____ a tree are two methods that have generally the same purpose
- a. guying
 - b. tipping
 - c. wrapping
 - d. girdling
- ___ 18. Which type of plant propagation accounts for the greatest genetic variation?
- a. sexual
 - b. asexual
 - c. micro-propagation
 - d. macro-propagation
- ___ 19. This nutrient causes rapid growth in most plants.
- a. potassium
 - b. nitrogen
 - c. zinc
 - d. calcium
- ___ 20. Some organizations, universities, and individuals maintain old plant varieties that are poor producers compared to modern varieties. What is the best reason these varieties should be maintained?
- a. genetic diversity
 - b. sentimentality
 - c. authenticity
 - d. medicinal sources
- ___ 21. Which of the following is generally true of safe pesticide or pesticide container disposal?
- a. Empty metal, plastic or glass pesticide containers should be rinsed out three times
 - b. Pesticides should be disposed of down a drain or poured onto the ground in secluded areas
 - c. Un-used pesticides should be applies to open land and plowed evenly into the soil
 - d. Pesticides containers should be put into large plastic bags and burned
- ___ 22. Which of the following is the correct ranking of chemical signal words from least toxic to most toxic?
- a. Warning, Poison, Caution
 - b. Poison, Caution, Corrosive
 - c. Warning, Caution, Poison
 - d. Caution, Warning, Danger

- ___ 23. What term is used to describe the crossing of two un-alike plants, resulting in offspring that are better than either of the parents?
- symbiosis
 - genetic gain
 - heterosis
 - crossbreeding
- ___ 24. Which of these plant groups all have varieties with purple or shades/tints of purple flowers?
- Betula, Forsythia, Pothos
 - Rhododendron, Saucer magnolia, Azalea
 - Ginkgo, Ficus, Cotoneaster
 - Euonymus, Potentilla, Picea
- ___ 25. What is the primary activity in a micropropagation facility?
- microradiation
 - tissue culture
 - hybridization
 - sexual propagation
- ___ 26. What are the two most common disease agents causing root rot?
- Bacteriodes melaninogenicus* and *Fusobacterium necrophorum*
 - phythium and rhizoctonia
 - coccidian and downy mildew
 - contagious ecthyma and thrombosis
- ___ 27. Which plant below would make the best accent or specimen plant?
- Blue rug juniper
 - Japanese maple
 - Chinese holly
 - liriope
- ___ 28. Which of the following is a macronutrient?
- iron
 - zinc
 - calcium
 - copper
- ___ 29. Which item would be a fixed cost of running a landscape maintenance company?
- tractor payments
 - cost of bark mulch
 - fuel costs
 - cost of landscape fabric
- ___ 30. Which of these describes the best way to prepare earplugs for insertion?
- stretch of the earplug to twice its length
 - fold the earplug in half horizontally
 - roll the earplug in your hands
 - stretch and twist the earplug
- ___ 31. A major factor in determining the size and number of sprinkler heads that can be installed in an irrigation line/circuit is:
- the number of plants to be watered
 - the water needs of the plants
 - the amount of irrigation piping used
 - the water pressure available for irrigation
- ___ 32. "Dead-heading" is an important operation on many annual plants because it makes them more attractive by removing dead materials and encourages the plant to:
- continue blooming
 - grow taller
 - grow more compact
 - go dormant
- ___ 33. A one-story ranch-style home probably should be framed with relatively short trees (mature height) to provide for proper _____ of the landscape.
- scale
 - balance
 - unity
 - clarity
- ___ 34. Noise pollution has become a big issue for landscape professionals. The sound from landscape equipment and other noise sources is measured in :
- sound units
 - amps
 - decibels
 - wavelengths

- ___ 35. A procedure to expose more plant tissue on the base of cuttings, and hopefully increase rotting, is called:
- scarification
 - wounding
 - splitting
 - girdling
- ___ 36. If a container crop is continuously over-watered:
- roots will begin to die from the bottom of the pot
 - roots will start dying from the top of the pot
 - stem rot along the soil line will likely develop
 - roots will twine around the outside edges of the soil ball
- ___ 37. Most plant diseases are caused by:
- mold and mildew
 - bacteria, fungi, and viruses
 - viruses and nematodes
 - molds, nematodes, and mildew
- ___ 38. Zero-turn commercial mowers have become popular because of their:
- zero percent interest rate
 - reduced noise on acceleration during turns
 - long, smooth, wide turning ability
 - tight turning radius
- ___ 39. Plants intended for resale to the consumer are purchased by businesses such as garden centers and landscape companies from _____ nurseries.
- wholesale
 - retail
 - outlet
 - community
- ___ 40. Which two protective items must be worn when operating a gas powered string trimmer (certain other items are recommended but optional)?
- hearing protection and eye protection
 - eye protection and chaps
 - hard hat and steel-toed boots
 - chaps and respirator
- ___ 41. Turf grasses can be propagated using _____ and _____ when present.
- lenticels and tendrils
 - stolons and rhizomes
 - sheaths and internodes
 - tendrils and internodes
- ___ 42. If a plant is listed as hardy in zones 9-10, what does that mean?
- the plant is cold hardy in most of the U.S
 - the plant does not do well in areas with minimum temperatures below 20-25 degrees F
 - the plant does not do well in areas with temperatures above 90 degrees F
 - the plant is an invasive and cannot be shipped to postal zones ending in and 09 or 10
- ___ 43. The home landscape is generally divided into three areas, the private, service, and _____ area.
- public
 - formal
 - turf
 - foundation
- ___ 44. Which of these soils will generally dry the fastest?
- clay loam
 - loam
 - sandy loam
 - silt loam
- ___ 45. An inorganic growing media ingredient made by exposing mica to high temperatures, where it “pops” to form a lightweight media ingredient several times its original size with good water holding ability is:
- vermiculite
 - perlite
 - peat
 - sphagnum

- ___ 46. The disease cedar-apple rust, uses cedars and junipers as a(n) _____ host.
- a. alternate
 - b. culinary
 - c. dedicated
 - d. definitive
- ___ 47. A fertilizer with an analysis of 5-10-15 contains _____ percent of phosphorous.
- a. 5
 - b. 10
 - c. 15
 - d. 30
- ___ 48. Many plants are propagated asexually and are clones of the parent plant. This is a common practice in horticulture because:
- a. many plants do not “breed true” from seed
 - b. genetic variety is easier to accomplish asexually
 - c. most landscape plants cannot be reproduced by seeds
 - d. asexually produced plants are usually genetically superior
- ___ 49. What fact(s) are important for landscapers to consider when selecting power equipment?
- a. emission
 - b. noise
 - c. fuel efficiency
 - d. all of the above
- ___ 50. Which of the following is true about flower parts?
- a. the stigma is male
 - b. the filament is female
 - c. the pollen is male
 - d. all the above is true
- ___ 51. To saw a four-inch limb off a tree, be sure to make the _____ cut first to prevent stripping of the bark on the tree trunk.
- a. flush
 - b. top
 - c. over
 - d. under
- ___ 52. Which group of items should be included in variable costs?
- a. insecticides and soil
 - b. utilities and office furniture
 - c. truck payments and telephone
 - d. mortgage payments and electric bill
- ___ 53. The Federal Communications Commission has mandated that 811 be used as the nationwide telephone number in the _____ program for everyone, including both commercial operators and homeowners.
- a. Tax Management
 - b. Labor Management
 - c. Pesticide Advisory
 - d. Call Before You Dig
- ___ 54. A dichotomous key in horticulture is:
- a. used to identify unknown plants
 - b. a computerized master key for landscape equipment
 - c. used to analyze the profitability of specific crops
 - d. used to determine the growth-area ratio
- ___ 55. A disorder of plants called ‘wind burn’ is caused by:
- a. wind friction to plant stems
 - b. abrasion by particles carried by the wind
 - c. hydration of plant tissues
 - d. desiccation of plant tissues
- ___ 56. On which group of plants is the operation “dead-heading” usually performed?
- a. annuals
 - b. groundcover
 - c. broadleaf evergreens
 - d. deciduous azaleas

- _____ 57. Alan landscaped the new Agriculture Education building at his school by planting one of every plant on the state Nursery and Landscape CDE list. While this made a great plant identification study area, he probably did not achieve the landscape design principle of :
- a. scale
 - b. balance
 - c. unity
 - d. clarity
- _____ 58. A multi-strategy tactic to economically maintain/control pests below levels of significant economic and environmental damage is called:
- a. Integrated Plant Management
 - b. Integrated Pest Management
 - c. Integrated Plant Material
 - d. Integrated Pest Material
- _____ 59. Which of the following is a horticulture occupation?
- a. Landscape Designer
 - b. Propagator
 - c. Spray Technician
 - d. All of the above
- _____ 60. A plant that is propagated by sexual reproduction is:
- a. genetically the same as the parent plant
 - b. a clone
 - c. generally not a genetic duplicate of the parent plant
 - d. genetically superior to asexually produced plants
- _____ 61. Which of these is a professional organization serving the landscape industry?
- a. PLANET
 - b. NLCA
 - c. PLCA
 - d. APHIS
- _____ 62. Some high-end turf mowers, especially commercial models, are termed _____ mowers because of their tight turning radius.
- a. one-turn
 - b. zero-turn
 - c. tight-radius
 - d. corner-radius
- _____ 63. A residential concrete walk from the driveway to the front door should generally be at least:
- a. 20 inches wide and 2 inches thick
 - b. 6 feet wide and 6 inches thick
 - c. 20 inches wide and 8 inches thick
 - d. 36 inches wide and 4 inches thick
- _____ 64. Underground stems of turf grasses are known as:
- a. lenticels
 - b. stolons
 - c. rhizomes
 - d. tendrils
- _____ 65. Which of these mediums is the smallest in particle size?
- a. clay
 - b. pebbles
 - c. sand
 - d. silt
- _____ 66. What season is the least desirable time to prune shrubs?
- a. mid-winter
 - b. early summer
 - c. early spring
 - d. late fall
- _____ 67. An inorganic growing media ingredient made from volcanic rock is:
- a. vermiculite
 - b. perlite
 - c. peat
 - d. sphagnum
- _____ 68. Soil compaction and loss of permeability are most likely on soils that contain which of the following?
- a. large amounts of humus
 - b. a high percentage of sand
 - c. a large number of stones
 - d. a high percentage of clay

- ___ 69. Which of the following is the primary function of endosperm in the sexual reproduction of flowering plants?
- a. producing the gametes that unite to form the embryo in the seed
 - b. surrounding and nourishing the embryo in the seed
 - c. forming the seed coat
 - d. forming the protective shell on the outside of some seed
- ___ 70. What is the purpose of surfactants used in horticulture?
- a. to provide nutrients to plants
 - b. to help the spreading and wetting ability of spray material
 - c. to control plant diseases
 - d. to assist a plant in absorbing nutrients
- ___ 71. A 16-4-8 fertilizer contains _____ percent of trace elements.
- a. 16
 - b. 4
 - c. 8
 - d. It cannot be determined from the analysis given
- ___ 72. Which flower part is responsible for producing pollen grains?
- a. stigma
 - b. filament
 - c. anther
 - d. embryonic sac
- ___ 73. How many plants can be grown on an acre if each plant requires 3 square feet?
- a. 14,520
 - b. 43,560
 - c. 120,708
 - d. 200,650
- ___ 74. The yellowing of plant vegetation due to a reduced amount of chlorophyll is called:
- a. chlorophyllitis
 - b. cellulitis
 - c. chlorosis
 - d. cytokinesis
- ___ 75. Cellular respiration is the _____ of/as photosynthesis in that energy is _____ as the stored sugars are broken down and used by the plant.
- a. same;released
 - b. opposite;released
 - c. product;created
 - d. opposite;created
- ___ 76. There are approximately ____ elements needed to provide all necessary plant nutrients (exact number varies by reference)
- a. 8
 - b. 17
 - c. 28
 - d. 46
- ___ 77. Glyphosate (Roundup) should be used carefully when spot-spraying weeds in the landscape because:
- a. it will kill the grass and other vegetation along with the weeds
 - b. it will not kill the weeds unless drift is prevented and spray is highly concentrated
 - c. spot spraying allows a higher chance of skin contact than most applications
 - d. Roundup should not be used as a spot spray
- ___ 78. A home landscape that has the same number, size, and shape of materials on the left side of the house as the right side is said to have _____ balance.
- a. even
 - b. asymmetrical
 - c. symmetrical
 - d. divisible
- ___ 79. Which type of mower is used to mow golf greens?
- a. vertical mower
 - b. rotary mower
 - c. reel mower
 - d. flail mower

- ___ 80. This nutrient is generally required in higher concentrations for plants than any other fertilizer component.
- nitrogen
 - phosphorous
 - iron
 - calcium
- ___ 81. The amount of money a business owner has left after all deductions for expenses have been made is his/her _____.
- marginal revenue
 - net profit
 - cost summation
 - marginal total
- ___ 82. Many turf irrigation systems have a _____ to keep sprinklers turned off when it is raining.
- time clock
 - back flood prevention valve
 - rain detector
 - rain gauge
- ___ 83. A tree or shrub that is used alone for accent or as a focal point is called a _____.
- specialist plant
 - specimen plant
 - solo plant
 - singular plant
- ___ 84. A homeowner was puzzled because about half the hollies in his hedge had beautiful red berries while the other half of the plants had no fruit at all. What was the most likely problem?
- He planted two different varieties of holly, one that produces fruit and one that does not.
 - The holly that currently does not have berries will produce fruit later
 - Hollies are either male with no berries or female which have berries
 - Street lights probably prevented proper fruit set on some of the plants
- ___ 85. Which of the following is not a broadleaf evergreen?
- Japanese Holly
 - Blue Rug Juniper
 - Camellia
 - Nandina
- ___ 86. Working soils when they are excessively wet, especially with a tractor, rotary tiller, etc., destroy:
- soil structure
 - organic matter
 - inorganic matter
 - soil texture
- ___ 87. The type of landscaping that uses fundamental principles to conserve water such as installing low water consuming plants is called:
- xeriscaping
 - hydroscaping
 - deserscaping
 - anhydroscaping
- ___ 88. Taylor has a rhododendron in her landscape that is highly stressed and unhealthy. It is likely that the cause of these problems is that the rhododendron was:
- planted only 10 feet from a street light
 - purchased as a ball and burlap plant
 - planted where it gets full sun
 - planted in soil that has a high amount of organic matter
- ___ 89. If you propagate 100 plants from tip cuttings of a dioecious plant, what percent of plants produced will be male and what percent will be female?
- approximately 50% will be female and 50% will be male
 - 100% will be female
 - 100% will be male
 - either 100% will be female or 100% will be male

- ___ 102. Foundation plants of a home landscape that are arranged to move the viewer's eye to the front door of the home is an application of this principle of design.
- a. focalization
 - b. balance
 - c. unity
 - d. simplicity
- ___ 103. Small, white, elongated, cocoon-like structures occasionally found growing out of the bodies of caterpillars are most likely:
- a. the caterpillar's young attached to it's back
 - b. the eggs the caterpillar is about to lay on the plants
 - c. the larvae of parasitic wasps parasitizing the caterpillar
 - d. a sign the caterpillar has ingested a non-lethal pesticide
- ___ 104. Which of the following is used to alleviate pressure on stone and masonry retaining walls?
- a. a dead-man brace
 - b. weep holes
 - c. catch basins
 - d. vermiculite
- ___ 105. Which acronym is **not** properly matched to its meaning?
- a. IPM -- Integrated Plant Management
 - b. PPM -- Parts Per Million
 - c. PSI -- Pounds Per Square Inch
 - d. All of the above are correct
- ___ 106. In 2005, the Associated Landscape Contractors of America (ALCA) and the Professional Lawn Care Association of America (PLCAA) joined forces to become the Professional Lawncare Network or:
- a. PLN.
 - b. PLN Work.
 - c. PLANET.
 - d. ProLand.
- ___ 107. Plants such as daylilies, which produce foliage and flowers during the growing season, die back to the ground during winter, and resprout the next spring are:
- a. flowering annuals.
 - b. herbaceous perennials.
 - c. woody perennials.
 - d. herbaceous annuals.
- ___ 108. If you examine the roots of a nursery plant that has been growing in a container for several month and find that the roots in the bottom half are dead, a likely cause is:
- a. leaching
 - b. the pot is too tall
 - c. insects have burrowed into the rootball through the drain holes
 - d. over-watering
- ___ 109. Zacchaeus was explaining the virtues of the sycamore tree to a customer at his nursery. Besides being hard to climb, which of these is true about sycamore trees? Sycamores:
- a. produce showy blooms in the spring
 - b. are very showy and colorful in the fall
 - c. have beautiful white trunks and limbs on older trees
 - d. produce a pleasant aroma all season
- ___ 110. Leaching refers to the:
- a. plant's ability to transpire.
 - b. plant's stomata exchange capacity.
 - c. washing-out or passage of nutrients through the soil.
 - d. photosynthetic activity of the plant.
- ___ 111. What landscape soil type is generally best for plant growth?
- a. sand
 - b. loam
 - c. silt
 - d. clay

- ___ 112. Which group of items should all be included in overhead costs?
- a. insecticides, soil, fungicide, brick pavers
 - b. guying materials, edging, sod, herbicides
 - c. soil, pots, plant cost, fertilizer
 - d. mortgage, legal fees, utilities, office expenses
- ___ 113. The modification/weakening of a seed coat so that the seed can germinate is called:
- a. cold-stratification.
 - b. warm-stratification.
 - c. double stratification.
 - d. scarification
- ___ 114. Water loss through plant leaves is called:
- a. respiration
 - b. transpiration
 - c. translocation
 - d. photosynthesis
- ___ 115. The surface shape and features of the landscape are referred to as the site:
- a. environ
 - b. hardscape
 - c. buffer zone
 - d. topography
- ___ 116. Which of these should be recommended for planting landscaping plants near a septic system?
- a. Plant trees and shrubs away from the septic field.
 - b. Plant only trees over the septic field - no shrubs.
 - c. Plant large shrubs over the septic field as a substitute for trees.
 - d. Only mulch should be used over a septic tank.
- ___ 117. Which of these is the term used in horticulture to describe spray materials being blown from the target area to non-target plants, etc.?
- a. over-spray
 - b. windage
 - c. secondary spray
 - d. drift
- ___ 118. The process of deadheading is performed on some annual flowers to:
- a. prolong the blooming period
 - b. promote healthier shoots
 - c. prevent disease from spreading
 - d. remove tissue used as food by many insects species
- ___ 119. Which is true about using roundup/glyphosate?
- a. Mix 1 tablespoon per gallon and saturate the soil
 - b. Mix 1 tablespoon per quart and water plants until water runs from the bottom of container
 - c. Although not its main purpose, glyphosate supplies some macronutrients
 - d. Visible results of spraying glyphosate is usually seen in 2-7 days
- ___ 120. Which of these occupations is not associated with the study of horticulture?
- a. Botanist
 - b. Entomologist
 - c. Herpetologist
 - d. Pathologist
- ___ 121. Which of these horticulture professions is most likely to require a four-year college degree and a license from the state government or another certifying organization?
- a. Landscape plant propagator
 - b. Landscape crew chief
 - c. Garden center management
 - d. Landscape architect

- ___ 122. Which group is considered invasive landscape plants?
- a. Mimosa, Ligustrum, Japanese Honeysuckle
 - b. Snapdragon, Wax Begonia, Chinese Holly
 - c. European Breech, Bearded Iris, White Ash
 - d. Zinna, Marigold, Zonial Geranium
- ___ 123. A canker in landscape terminology is defined as:
- a. a disease found in the roots of hardwood trees
 - b. a localized diseased area on a plant, usually on the trunk, branch, or twig
 - c. an electrical device used to crank hard to start engines on landscape equipment
 - d. an invasive disease that, if not treated, will take over the entire plant
- ___ 124. Which of these is true about the conditions necessary to root stem cuttings of woody ornamentals?
- a. Rooting media should be kept cool.
 - b. Sand should always be used to root stem cuttings.
 - c. The rooting media must be of high fertility.
 - d. The humidity around cuttings should be kept high.
- ___ 125. One of the main objectives of installing landscape retention and detention ponds is to:
- a. hold pesticide run-off to prevent mosquitoes and other insects.
 - b. slow rain water run-off.
 - c. provide water for beneficial insects.
 - d. maintain a body of water for landscape irrigation.
- ___ 126. Which of the following is correct about APHIS?
- a. APHIS is a department in the EPA.
 - b. It stands for Animal and Plant Health Inspection Service.
 - c. APHIS is a common insect pest of ornamental plants.
 - d. It stands for American Protection from Herbaceous Invasive Shrubs.
- ___ 127. The word 'alba' in a plant name usually means that the blooms will be:
- a. white.
 - b. red.
 - c. pink.
 - d. blue.
- ___ 128. There are two basic types of weeds: _____ and _____.
- a. mono and poly-deciduous
 - b. deciduous and poly-deciduous
 - c. grassy weeds and broadleaf weeds
 - d. deciduous and herbaceous
- ___ 129. The usual time to use oil sprays in the landscape is:
- a. when the plant is in full bloom
 - b. just before bud break in the spring
 - c. at dawn or dusk
 - d. any time except during the dormant period
- ___ 130. Nina added fresh pine sawdust to the planting hole of her shrub. After a few months the shrub began looking yellowish. What was the more likely reason.
- a. the sawdust caused the soil to drain too quickly, leaching away the nitrogen.
 - b. the plants were hyper-sensitive to pine sap
 - c. the plants were hypo-sensitive to pine sap.
 - d. bacteria feeding on the sawdust depleted the soil nitrogen.
- ___ 131. Many insects traps use chemical sex attractants called _____ to lure insects into the traps.
- a. pathogens
 - b. angelicas
 - c. anti-transpirants
 - d. pheromones

- ___ 132. On what part of a golf course is grass cut shortest.
- a. tee
 - b. fringe
 - c. green
 - d. rough
- ___ 133. Alan, a concerned citizen, was upset when he saw what he thought was strip mining going on in his community. A local nurseryman was cutting long strips out of his beautiful field of grass and loading it onto trucks. What Alan saw was actually:
- a. strip cropping
 - b. topsoil aeration
 - c. sod farming
 - d. strip farming
- ___ 134. Repetition of plants or groups of plants in the landscape helps to achieve which principle of design?
- a. focalization
 - b. unity
 - c. scale
 - d. rhythm
- ___ 135. A small one-story home framed by very large oaks in the backs and on the sides creates a problem with this landscape principle.
- a. fall line
 - b. understory line
 - c. drip line
 - d. branch line
- ___ 136. The imaginary line directly beneath the outer edge of the branches of a tree is called the _____
- a. seeding
 - b. layering
 - c. root cuttings
 - d. stem cuttings
- ___ 137. Three of the six landscape design principles are: balance, proportion, and simplicity. What are the other three?
- a. rhythm, unity, and focalization
 - b. unity, texture, and pattern
 - c. line, focalization, and disarray
 - d. spacing, color, and line
- ___ 138. Three of the six landscape design principles are: balance, proportion, and simplicity. What are the other three?
- a. Rhythm, unity, and focalization
 - b. Unity, texture, and pattern
 - c. Line, focalization, and disarray
 - d. Spacing, color, and line
- ___ 139. A common disease of germinating seeds and seedlings called Damping-off is caused by a:
- a. fungus
 - b. physiological disorder
 - c. virus
 - d. bacteria
- ___ 140. Which of these nutrients/elements are needed by plants in the greatest amounts?
- a. Carbon, Hydrogen, and Oxygen
 - b. Phosphorus, Sodium, and Calcium
 - c. Nitrogen, Cobalt, and Molybdenum
 - d. Iron, Manganese, and Copper
- ___ 141. Which pieces of safety equipment should always be worn when operating commercial-type power blowers?
- a. knee pads and hard hat
 - b. Chaps and steel-toed shoes
 - c. Safety goggles and ear plugs
 - d. All of the above
- ___ 142. A(n) _____ is often used to help identify unknown shrub and tree species.
- a. dichotomous key
 - b. leaf index
 - c. inclusion chart
 - d. differentiation guide index
- ___ 143. Which of these pieces of landscape equipment is most likely to be powered by a four-cycle engine?
- a. lawnmower
 - b. chainsaw
 - c. string trimmer
 - d. hedge trimmer

- ___ 144. Normally, a sheared hedge should be:
- a. oval shaped
 - b. wider at the top than at the bottom
 - c. wider at the bottom than at the top
 - d. globed shaped with the widest point in the middle
- ___ 145. If a plant is “disease-resistant,” the plant:
- a. is patented and does not succumb to disease
 - b. is being grown out of its native habitat and away from native plant diseases
 - c. is not as likely to get a disease as non-resistant plants
 - d. will not get disease
- ___ 146. Hybrid Tea Roses are:
- a. propagated from hybrid seed
 - b. usually budded or grafted
 - c. easily grown from seed because rose seeds have the ability to ‘come true’ from seed
 - d. commercially propagated by micro propagation to prevent disease
- ___ 147. If a container crop is kept in the container too long or otherwise out-grows the container resulting in matted or tangled roots, the plant is said to be:
- a. pot tight
 - b. ring matted
 - c. tangle rooted or matt rooted
 - d. pot-bound or root-bound
- ___ 148. Which of these is a term used to describe a part of a flower?
- a. Avalon
 - b. Corolla
 - c. Camry
 - d. Tundra
- ___ 149. Dead and decomposed stems and leaves in turfgrass are often referred to as:
- a. stover
 - b. the A-1 horizon
 - c. flush
 - d. thatch
- ___ 150. Plants that have gracefully drooping limbs are often described in horticulture terms as _____.
- a. undulating
 - b. floppy
 - c. weeping
 - d. sagging
- ___ 151. Which of these is a safety feature on a chainsaw?
- a. Oil pressure valve
 - b. Chop-ring
 - c. Anti-static paint
 - d. Chain brake
- ___ 152. An orange triangle displayed on the back of equipment that is moved short distances along public roads is referred to as a(n) _____ sign.
- a. tractor
 - b. slow-moving vehicle
 - c. emergency vehicle
 - d. wide vehicle
- ___ 153. Which of these statements is true?
- a. The most accurate retail pricing formula is the cost of production multiplied by four
 - b. Nutsedge is a good substitute for junipers in hot, dry areas of the landscape
 - c. Purslane is used as a perennial flowering plant in most of the US
 - d. Landscapers generally purchase their plants from wholesalers
- ___ 154. What is the ANLA?
- a. American Nursery Landscape Alliance
 - b. American Nursery and Landscape Association
 - c. American New Landscape Affiliate
 - d. Association of Nursery Landscapers of America

- ___ 155. Which of these can be a plant disease vector?
- | | |
|-----------|---------------------|
| a. Trips | c. Humans |
| b. Aphids | d. All of the above |
- ___ 156. The fixed costs for a nursery business would include:
- | | |
|---------|----------|
| a. pots | c. rent |
| b. soil | d. labor |
- ___ 157. Most landscape irrigation systems are installed using _____ pipe.
- | | |
|---------------|---------|
| a. copper | c. iron |
| b. galvanized | d. PVC |
- ___ 158. The majority of a plant's stomata are located on the:
- | | |
|----------|-----------|
| a. stems | c. leaves |
| b. roots | d. bark |
- ___ 159. A plant in the window, growing toward the sunlight, is an example of:
- | | |
|-----------------|-------------------|
| a. stimulation | c. geotropism |
| b. phototropism | d. photosynthesis |
- ___ 160. The major function of root hairs is to:
- | | |
|------------------------------|---|
| a. grow into larger roots | c. protect the root as it pushed through the soil |
| b. absorb water and minerals | d. anchor the plant |
- ___ 161. Which are signal words used on pesticide labels?
- | | |
|----------------------------------|-------------------------------|
| a. Alert, Extreme, Caution | c. Careful, Alert, Crossbones |
| b. Careful, Caution, Contaminate | d. Caution, Warning, Danger |
- ___ 162. Which tree normally has good fall color?
- | | |
|-------------|---------------------|
| a. Ginkgo | c. Sugar maple |
| b. Blackgum | d. All of the above |
- ___ 163. Most deciduous shade trees and non-flowering shrubs are best pruned during:
- | | |
|-------------------------------|---------------------------------|
| a. early fall | c. late winter and early spring |
| b. late summer and early fall | d. summer and fall |
- ___ 164. A common cause of tall, spindly growth of container-grown nursery stock is:
- | | |
|-------------------|--------------------------|
| a. under watering | c. low nutrition |
| b. over crowding | d. a damaged root system |
- ___ 165. A low LD50 rating of a pesticide means that the pesticide is:
- | | |
|--------------------------------------|--|
| a. highly hazardous to humans | c. very safe for humans |
| b. unstable when not stored properly | d. not very effective in controlling pests |
- ___ 166. Two of the most problematic invasive landscape plants are:
- | | |
|---------------------------|---------------------------|
| a. White Oak and Sycamore | c. Privet and English Ivy |
| b. Bluegrass and Fescue | d. Forsythia and Bayberry |
- ___ 167. Which of these are relatively new landscape features designed to prevent rapid water runoff from landscapes?
- | | |
|--|--------------------------------|
| a. Gravity gardens, ponder pools, and gutter gardens | c. Drain gates and ponds |
| b. Retention and detention ponds and rain gardens | d. Rainscapes and puddlescapes |

- ___ 168. When sodding a lawn:
- a. the sod strips should be placed tight against the adjoining sod
 - b. the pallet of sod should be soaked thoroughly a few hours before the sod is laid
 - c. the sod strips should be shaken vigorously to loosen roots and remove excess soil
 - d. All the above
- ___ 169. Which is the recommended method of aerating turf?
- a. Pull-behing spike aerators
 - b. core aerators
 - c. vertical forced-air injection
 - d. diagonal forced-air injection
- ___ 170. What is one thing that should NOT be added to the soil when planting azaleas, rhododendrons, hollies, etc.?
- a. Fertilizer
 - b. Lime
 - c. Pine bark
 - d. Peat moss
- ___ 171. The _____ on hydrangeas can be changed by adjusting the pH of the soil.
- a. flower size
 - b. number of blooms
 - c. flower color
 - d. flower shape
- ___ 172. Soil pH refers to the _____ of a soil.
- a. acidity or alkalinity
 - b. potential hardness
 - c. soluble salts level
 - d. nitrogen level
- ___ 173. Silvery trails on and around plants are a sign of:
- a. grubs
 - b. aphids
 - c. slugs
 - d. mealy bugs
- ___ 174. Which of these insects is the smallest?
- a. aphids
 - b. leafhoppers
 - c. bagworms
 - d. borers
- ___ 175. Landscape night lighting provides:
- a. safety and security
 - b. accent and welcome
 - c. extended hours of enjoyment
 - d. all of the above
- ___ 176. Many insects, such as white flies, are attracted to _____, which if the color often used in sticky traps.
- a. purple
 - b. yellow
 - c. black
 - d. plaid
- ___ 177. Which is a true statement about watering container plants?
- a. plants may become root-bound if over watered.
 - b. plants should be watered once per week with one inch of water
 - c. deep roots develop due to over watering
 - d. roots may die if over watered
- ___ 178. Landscape plantings near the base of a residence are known as _____ plantings.
- a. border
 - b. screen
 - c. foundation
 - d. specimen
- ___ 179. Which of these animals is most damaging to landscape plants?
- a. deer
 - b. squirrels
 - c. snakes
 - d. birds

- ___ 180. What is callus in horticulture?
- | | |
|--|---|
| a. callus is plant tissue that forms around the base of a cutting during the rooting process | c. a callus is a tool used to remove dead or diseased plants from the landscape |
| b. if you do not like our landscape work, you call call-us | d. callus is a bulb plant, similar to a calla lily |
- ___ 181. Small, corky pores along the stem that allow for gas exchange between the atmosphere and plant cells are:
- | | |
|------------------|--------------|
| a. terminal buds | c. nodes |
| b. bud scales | d. lenticels |
- ___ 182. Which of the following is NOT an example of a hardscape item?
- | | |
|-------------------------|------------------------|
| a. Foundation plantings | c. irrigations systems |
| b. pools | d. retaining walls |
- ___ 183. If a fertilizer contains 17 percent potash, 15 percent nitrogen, and 16 percent phosphorus, what analysis should be written on the bag?
- | | |
|---------------|-------------|
| a. 48 percent | c. 15-16-17 |
| b. 16-17-15 | d. 17-15-16 |
- ___ 184. Evergreen trees planted in the path of the prevailing wind can reduce _____ in the winter.
- | | |
|---------------|---------------|
| a. erosion | c. sun damage |
| b. wind chill | d. wind shear |
- ___ 185. A new hydrangea had a not on the tag that read, "Reproduction of this plant is prohibited without license." That means it is probably:
- | | |
|-------------|--------------------------------|
| a. patented | c. an inbred cultivar |
| b. a hybrid | d. an open- pollinated variety |
- ___ 186. Insects are divided into two major categories to help in selecting an effective chemical control. These two types are _____ insects.
- | | |
|--------------------------------|---------------------------|
| a. slow moving and fast moving | c. two wing and four wing |
| b. flying and non-flying | d. chewing and sucking |
- ___ 187. Which of these is a landscape drawing tool used to draw long, straight, vertical, and horizontal lines?
- | | |
|----------------|---------------|
| a. sling blade | c. protractor |
| b. template | d. t-square |
- ___ 188. Alan saw a plant at the arboretum labeled in a foreign language and was very upset because he thinks everyone in the United States should use only English. Then he remembered that there is a good reason for using _____ names for plants.
- | | |
|------------|-----------|
| a. French | c. German |
| b. Spanish | d. Latin |
- ___ 189. Which term is NOT a horticultural term meaning a place where plants are grown?
- | | |
|---------------------|-----------------|
| a. Colloquium | c. Arboretum |
| b. Botanical garden | d. Conservatory |
- ___ 190. In plant nomenclature, the word 'rubra' appearing in a scientific name means:
- | | |
|-------------------|----------|
| a. runner or vine | c. rooty |
| b. red | d. ruby |

- ___ 191. Why is it recommended to place crushed stone behind retaining walls before backfilling?
- a. to assist in water drainage
 - b. to prevent animals from burrowing behind the wall
 - c. to assist in air movement
 - d. to prevent wood rot
- ___ 192. Before digging, homeowners and landscapers should call a designated number, usually an 800 number, and get advice to:
- a. prevent damage to electrical lines and people
 - b. prevent damage to telephone lines
 - c. prevent damage to underground TV cables
 - d. all the above
- ___ 193. Asexual propagation is the only reliable propagation method for most plants that are:
- a. deciduous
 - b. open-pollinated
 - c. fertile
 - d. hybrids
- ___ 194. A pH range that includes the desired pH for most landscape plants is:
- a. 5.5 to 7.0
 - b. 1.5 to 3.5
 - c. 9.5 to 13.5
 - d. 2.0 to 4.0
- ___ 195. Which of the following is a function of mulch?
- a. conserves moisture
 - b. provides a source of nitrogen
 - c. reduces insect damage to the plant
 - d. reduces rodent damage to the plant
- ___ 196. Which of the following is NOT considered landscape drawing equipment?
- a. Pencil
 - b. Template
 - c. Caliper
 - d. T-square
- ___ 197. Which grass is most often used on golf greens?
- a. bentgrass
 - b. bluegrass
 - c. fescue
 - d. zoysia
- ___ 198. Which of the following is NOT a cool-season turfgrass?
- a. Kentucky bluegrass
 - b. Tall fescues
 - c. Bermudagrass
 - d. Perennial ryegrasses
- ___ 199. A herbicide used to control existing weeds is called:
- a. pre-emergence
 - b. post-emergence
 - c. re-emergence
 - d. pro-emergence
- ___ 200. On “Desperate Housewives”, the stars live on Wisteria Lane. The best description of the wisteria plant is:
- a. an evergreen vine with large yellow trumpet-shaped flowers throughout the summer
 - b. an aggressive, deciduous vine that blooms in the spring
 - c. a semi-deciduous, non-flowering, pseudo-vining plant with aggressive tendrils.
 - d. a red-flowering, vine-type, with a reputation for beauty but fairly difficult to grow
- ___ 201. Which plant produces a spectacular show of red/orange berries?
- a. Crepe myrtle
 - b. Sweet gum
 - c. Ginkgo
 - d. European Mountain Ash

- _____ 202. Which of the following plants is most likely to suffer health damage if planted in a low, moist, semi-shaded area?
- a. Juniper
 - b. Dogwood
 - c. English Ivy
 - d. Maple
- _____ 203. Traditional garden centers, in many cases, have been able to compete with chain department stores by providing:
- a. Lower prices
 - b. better service
 - c. better refund policies
 - d. cleaner stores
- _____ 204. On which section of the golf course is the grass usually cut the shortest?
- a. green
 - b. fairway
 - c. fringe
 - d. rough
- _____ 205. Why is it undesirable to have a weedy overgrown area next to your lawn?
- a. The weeds go to seed and spread to your lawn and adjacent areas.
 - b. It is NOT undesirable because the insects are attracted to the overgrown plants instead of to your landscape.
 - c. the roots of the tall weeds interfere with your plants root system.
 - d. when the weeds are overgrown, they give off an unpleasant color.
- _____ 206. Though not recommended, if 2 cycle engine fuel is actually used in a 4-cycle engine:
- a. the engine will not start, or will be hard to start.
 - b. there is no problem, the engine will run just fine.
 - c. the engine will be much louder than normal.
 - d. the engine will likely smoke a lot, but it will run.
- _____ 207. Which of the following hardiness zones is warmer than Zone 5?
- a. zone A
 - b. Zone 6-y
 - c. zone 4
 - d. zone 6
- _____ 208. Large berms are often used to:
- a. Add landform interest and divert noise
 - b. Shade sun-sensitive plants
 - c. trim golf greens
 - d. stock landscape ponds
- _____ 209. One characteristic of Roundup (Glyphosate) that customers sometimes object to is:
- a. its long lasting effect
 - b. That it takes several days to kill weeds
 - c. that it is extremely toxic to pets
 - d. that it temporarily stains the soil surface orange.
- _____ 210. Which LD-50 rating listed is most toxic to man?
- a. 1750
 - b. 84
 - c. 945
 - d. 10,000
- _____ 211. Water _____ to help reduce disease in nursery crops.
- a. late in the afternoon
 - b. early in the day
 - c. at night
 - d. with overhead sprinklers
- _____ 212. Which of the following is a beneficial insect?
- a. Lady beetle
 - b. aphid
 - c. fungus gnat
 - d. thrip

- ___ 213. Which of the numbers listed below is a normal fertilizer analysis you might find on a fertilizer bag?
- a. 12-12-12
 - b. 10-10
 - c. 8-12-12-12
 - d. 4-0-0-4
- ___ 214. One reason modern horticultural fabrics used in landscaping are said to be better than black polyethylene film is they:
- a. prevent moisture from penetrating too deeply
 - b. make a better base for rock mulch.
 - c. allow exchange of gases between soil and air
 - d. completely control weeds
- ___ 215. Who is responsible for establishing the binomial system for naming plants?
- a. Aristotle
 - b. Linnaeus
 - c. Weinberg
 - d. Bernoulli
- ___ 216. The part of a newly grafted plant that will form the branch system is the:
- a. Scion
 - b. Shoot stock
 - c. branch stock
 - d. graft stock
- ___ 217. Which plant type below has the most limited range for planting time, generally last fall through late winter?
- a. containerized trees and shrubs
 - b. bare root trees
 - c. containerized ground covers
 - d. potted seedlings
- ___ 218. The best type of sand to use in soil mixtures for container grown plants is:
- a. beach
 - b. fine-textured
 - c. white, fine-textured
 - d. coarse textured
- ___ 219. Which plant has thickened, fleshy roots for food storage?
- a. Boston ivy
 - b. day lily
 - c. bluegrass
 - d. spirea
- ___ 220. Scientific names generally consist of two words, the first being the genus and the second being the:
- a. species
 - b. family
 - c. order
 - d. cultivar
- ___ 221. A tumor in plants caused by bacteria is called a:
- a. vegetative tumor
 - b. rector
 - c. Ganker
 - d. Gall
- ___ 222. Fire blight is caused by what type of organism?
- a. Bacteria
 - b. Virus
 - c. Insect
 - d. Fungus
- ___ 223. Which is a Signal Word on a pesticide label?
- a. Slight
 - b. Extreme
 - c. Careful
 - d. Caution
- ___ 224. In the name Acer rubrum 'October Glory', 'October Glory' is a:
- a. Species
 - b. Cultivar
 - c. Genus
 - d. Variety
- ___ 225. What is the function of the axillary bud on the stem?
- a. To provide food storage
 - b. To aid in seed dispersal.
 - c. To produce a new leaf or stem.
 - d. To help heal wounds of the plant.

- ___ 226. What is Ginkgo biloba a great focal point of interest in the fall?
- the leaves turn bright red
 - it keeps its leaves throughout the season
 - the leaves turn bright yellow
 - it has bright pink flowers
- ___ 227. Compacted and poorly drained soils contain little _____, a gas that tree roots need to survive and grow.
- Zenon
 - Carbon dioxide
 - Oxygen
 - Hydrogen
- ___ 228. Failure to firm down the soil around a newly planted tree or shrub can result in the air pockets. This may cause:
- drying of plant roots
 - soil heaving in winter
 - disease
 - over watering problems
- ___ 229. Wire used for staking a tree should always be:
- wrapped from the bottom to the top of the tree
 - wrapped from the top to the bottom of the tree
 - wrapped right to left on the trunk
 - inserted into rubber or plastic hosing at the points of contact
- ___ 230. The thin tissue of the plant located between the bark and the wood is known as:
- Scion
 - Stock
 - Callus
 - Cambium
- ___ 231. Which is most important to the financial health of a nursery/landscape business:
- Gross sales
 - Marginal cost
 - Net profit
 - Cost margin
- ___ 232. Pollen is found on the flower part known as the:
- Filament
 - Sepal
 - Pistil
 - Anther
- ___ 233. In plant pathology the virulence of an organism refers to:
- The resistance of pathogen to pesticides
 - How often a plant is inoculated
 - The ability of a pathogen to cause disease
 - The ability of a plant to reproduce naturally
- ___ 234. Leaves that show interveinal chlorosis probably suffer from:
- nitrogen excess
 - chlorine damage
 - water stress
 - iron deficiency
- ___ 235. Which of the following is NOT derived from naturally occurring rocks or minerals?
- perlite
 - vermiculite
 - peat moss
 - pes gravel
- ___ 236. Which of the following has the longest bloom period?
- dogwood
 - crepe myrtle
 - flowering crabapple
 - saucer magnolia
- ___ 237. A perennial vine producing fragrant yellow flowers during summer and fall is:
- Boston ivy
 - English ivy
 - wisteria
 - None of the above

- ____ 238. A type of propagation in which the new plant remains attached to the mother plant until its root system is established is called:
- layering
 - stem cutting
 - cleft grafting
 - root cutting
- ____ 239. Shrubs planted in small groups in the landscape are generally placed in:
- groups of 2
 - odd numbered groups (i.e 3,5,7)
 - even numbered groups (i.e 2,4,6)
 - groups of 4
- ____ 240. What should you look for on a pesticide label to determine its relative toxicity?
- signal word
 - toxicity code
 - expiration date
 - application statement
- ____ 241. For maximum effectiveness, Mulches should be applied -about ____ deep.
- 1 inch
 - 3-4 inches
 - 8-10 inches
 - 10-12 inches
- ____ 242. A complete fertilizer contains nitrogen, phosphorous and:
- K (calcium)
 - C (calcium)
 - P (potassium)
 - K (potassium)
- ____ 243. Why are field-grown native trees from a nursery more likely to survive digging and planting into the landscape than those dug from the wild?
- nursery grown plants can be containerized
 - plants field grown in the nursery are root pruned occasionally
 - nursery grown plants have fewer but longer roots
 - there is no difference in the survival rate of plants dug from the wild and nursery grown plants
- ____ 244. What is one reason mid-way watering of lawns in the summer is usually not recommended?
- Much of the water is lost through evaporation.
 - plant roots do not readily absorb water during the daylight hours
 - homeowners pay a premium for water if they irrigate between the hours of 8 AM and 5 PM
 - fast evaporation of the water from plant leaves may cause disease.
- ____ 245. Which of the following is the adult stage of a bagworm?
- moth
 - beetle
 - larva
 - butterfly
- ____ 246. The landscape profession for which you are most likely to need a license is:
- landscape designer
 - landscape architect
 - landscape contractor
 - landscape maintenance supervisor
- ____ 247. An individual or firm hired to install or construct a portion of a large landscape job is called a:
- Subcontractor
 - contractor
 - Contract specialist
 - Maintenance specialists
- ____ 248. A typical home landscape is divided into _____ use areas.
- Three to four
 - Fix to six
 - Six to seven
 - Nine to ten

- ____ 249. Which of the following is most likely to need liability insurance related to their occupation?
- a. Nursery Manager
 - b. Nursery owner
 - c. Landscape foreman
 - d. Plant propagator
- ____ 250. Which of the following is NOT true about wounding of cuttings?
- a. Wounding is done to expose more of the cambium layer.
 - b. Wounding can be accomplished in a number of ways including scraping the base of a cutting with a knife.
 - c. Wounding is recommended for all cuttings and produces quicker rooting and better uniformity.
 - d. After wounding, treatment with a rooting hormone many facilitate rooting.

N-L Test Bank B
Answer Section

MULTIPLE CHOICE

1. ANS: B PTS: 1
2. ANS: B PTS: 1
3. ANS: C PTS: 1
4. ANS: A PTS: 1
5. ANS: C PTS: 1
6. ANS: D PTS: 1
7. ANS: D PTS: 1
8. ANS: D PTS: 1
9. ANS: C PTS: 1
10. ANS: D PTS: 1
11. ANS: C PTS: 1
12. ANS: A PTS: 1
13. ANS: D PTS: 1
14. ANS: A PTS: 1
15. ANS: C PTS: 1
16. ANS: C PTS: 1
17. ANS: A PTS: 1
18. ANS: A PTS: 1
19. ANS: B PTS: 1
20. ANS: A PTS: 1
21. ANS: A PTS: 1
22. ANS: D PTS: 1
23. ANS: C PTS: 1
24. ANS: B PTS: 1
25. ANS: B PTS: 1
26. ANS: B PTS: 1
27. ANS: B PTS: 1
28. ANS: C PTS: 1
29. ANS: A PTS: 1
30. ANS: C PTS: 1
31. ANS: D PTS: 1
32. ANS: A PTS: 1
33. ANS: A PTS: 1
34. ANS: C PTS: 1
35. ANS: B PTS: 1
36. ANS: A PTS: 1
37. ANS: B PTS: 1
38. ANS: D PTS: 1
39. ANS: A PTS: 1
40. ANS: A PTS: 1
41. ANS: B PTS: 1

42.	ANS: B	PTS: 1
43.	ANS: A	PTS: 1
44.	ANS: C	PTS: 1
45.	ANS: A	PTS: 1
46.	ANS: A	PTS: 1
47.	ANS: B	PTS: 1
48.	ANS: A	PTS: 1
49.	ANS: D	PTS: 1
50.	ANS: C	PTS: 1
51.	ANS: D	PTS: 1
52.	ANS: A	PTS: 1
53.	ANS: D	PTS: 1
54.	ANS: A	PTS: 1
55.	ANS: D	PTS: 1
56.	ANS: A	PTS: 1
57.	ANS: C	PTS: 1
58.	ANS: B	PTS: 1
59.	ANS: D	PTS: 1
60.	ANS: C	PTS: 1
61.	ANS: A	PTS: 1
62.	ANS: B	PTS: 1
63.	ANS: D	PTS: 1
64.	ANS: C	PTS: 1
65.	ANS: A	PTS: 1
66.	ANS: D	PTS: 1
67.	ANS: B	PTS: 1
68.	ANS: D	PTS: 1
69.	ANS: B	PTS: 1
70.	ANS: B	PTS: 1
71.	ANS: D	PTS: 1
72.	ANS: C	PTS: 1
73.	ANS: A	PTS: 1
74.	ANS: C	PTS: 1
75.	ANS: B	PTS: 1
76.	ANS: B	PTS: 1
77.	ANS: A	PTS: 1
78.	ANS: C	PTS: 1
79.	ANS: C	PTS: 1
80.	ANS: A	PTS: 1
81.	ANS: B	PTS: 1
82.	ANS: C	PTS: 1
83.	ANS: B	PTS: 1
84.	ANS: C	PTS: 1
85.	ANS: B	PTS: 1
86.	ANS: A	PTS: 1
87.	ANS: A	PTS: 1
88.	ANS: C	PTS: 1

89.	ANS: D	PTS: 1
90.	ANS: C	PTS: 1
91.	ANS: D	PTS: 1
92.	ANS: C	PTS: 1
93.	ANS: A	PTS: 1
94.	ANS: A	PTS: 1
95.	ANS: D	PTS: 1
96.	ANS: C	PTS: 1
97.	ANS: B	PTS: 1
98.	ANS: D	PTS: 1
99.	ANS: C	PTS: 1
100.	ANS: B	PTS: 1
101.	ANS: C	PTS: 1
102.	ANS: A	PTS: 1
103.	ANS: C	PTS: 1
104.	ANS: B	PTS: 1
105.	ANS: A	PTS: 1
106.	ANS: C	PTS: 1
107.	ANS: B	PTS: 1
108.	ANS: D	PTS: 1
109.	ANS: C	PTS: 1
110.	ANS: C	PTS: 1
111.	ANS: B	PTS: 1
112.	ANS: D	PTS: 1
113.	ANS: D	PTS: 1
114.	ANS: B	PTS: 1
115.	ANS: D	PTS: 1
116.	ANS: A	PTS: 1
117.	ANS: C	PTS: 1
118.	ANS: A	PTS: 1
119.	ANS: D	PTS: 1
120.	ANS: C	PTS: 1
121.	ANS: D	PTS: 1
122.	ANS: A	PTS: 1
123.	ANS: B	PTS: 1
124.	ANS: D	PTS: 1
125.	ANS: B	PTS: 1
126.	ANS: B	PTS: 1
127.	ANS: A	PTS: 1
128.	ANS: C	PTS: 1
129.	ANS: B	PTS: 1
130.	ANS: D	PTS: 1
131.	ANS: D	PTS: 1
132.	ANS: D	PTS: 1
133.	ANS: C	PTS: 1
134.	ANS: C	PTS: 1

135.	ANS: C	PTS: 1
136.	ANS: D	PTS: 1
137.	ANS: A	PTS: 1
138.	ANS: A	PTS: 1
139.	ANS: A	PTS: 1
140.	ANS: A	PTS: 1
141.	ANS: C	PTS: 1
142.	ANS: A	PTS: 1
143.	ANS: A	PTS: 1
144.	ANS: C	PTS: 1
145.	ANS: C	PTS: 1
146.	ANS: B	PTS: 1
147.	ANS: D	PTS: 1
148.	ANS: B	PTS: 1
149.	ANS: D	PTS: 1
150.	ANS: C	PTS: 1
151.	ANS: D	PTS: 1
152.	ANS: B	PTS: 1
153.	ANS: D	PTS: 1
154.	ANS: B	PTS: 1
155.	ANS: D	PTS: 1
156.	ANS: C	PTS: 1
157.	ANS: D	PTS: 1
158.	ANS: C	PTS: 1
159.	ANS: B	PTS: 1
160.	ANS: B	PTS: 1
161.	ANS: D	PTS: 1
162.	ANS: D	PTS: 1
163.	ANS: C	PTS: 1
164.	ANS: B	PTS: 1
165.	ANS: A	PTS: 1
166.	ANS: C	PTS: 1
167.	ANS: B	PTS: 1
168.	ANS: A	PTS: 1
169.	ANS: B	PTS: 1
170.	ANS: B	PTS: 1
171.	ANS: C	PTS: 1
172.	ANS: A	PTS: 1
173.	ANS: C	PTS: 1
174.	ANS: A	PTS: 1
175.	ANS: D	PTS: 1
176.	ANS: B	PTS: 1
177.	ANS: D	PTS: 1
178.	ANS: C	PTS: 1
179.	ANS: A	PTS: 1
180.	ANS: A	PTS: 1
181.	ANS: D	PTS: 1

182.	ANS: A	PTS: 1
183.	ANS: C	PTS: 1
184.	ANS: B	PTS: 1
185.	ANS: A	PTS: 1
186.	ANS: D	PTS: 1
187.	ANS: D	PTS: 1
188.	ANS: D	PTS: 1
189.	ANS: A	PTS: 1
190.	ANS: B	PTS: 1
191.	ANS: A	PTS: 1
192.	ANS: D	PTS: 1
193.	ANS: D	PTS: 1
194.	ANS: A	PTS: 1
195.	ANS: A	PTS: 1
196.	ANS: C	PTS: 1
197.	ANS: A	PTS: 1
198.	ANS: C	PTS: 1
199.	ANS: B	PTS: 1
200.	ANS: B	PTS: 1
201.	ANS: D	PTS: 1
202.	ANS: A	PTS: 1
203.	ANS: B	PTS: 1
204.	ANS: A	PTS: 1
205.	ANS: A	PTS: 1
206.	ANS: D	PTS: 1
207.	ANS: D	PTS: 1
208.	ANS: A	PTS: 1
209.	ANS: B	PTS: 1
210.	ANS: B	PTS: 1
211.	ANS: B	PTS: 1
212.	ANS: A	PTS: 1
213.	ANS: A	PTS: 1
214.	ANS: C	PTS: 1
215.	ANS: B	PTS: 1
216.	ANS: A	PTS: 1
217.	ANS: B	PTS: 1
218.	ANS: D	PTS: 1
219.	ANS: B	PTS: 1
220.	ANS: A	PTS: 1
221.	ANS: D	PTS: 1
222.	ANS: A	PTS: 1
223.	ANS: D	PTS: 1
224.	ANS: B	PTS: 1
225.	ANS: C	PTS: 1
226.	ANS: C	PTS: 1
227.	ANS: C	PTS: 1

228. ANS: A PTS: 1
229. ANS: D PTS: 1
230. ANS: D PTS: 1
231. ANS: C PTS: 1
232. ANS: D PTS: 1
233. ANS: C PTS: 1
234. ANS: C PTS: 1
235. ANS: C PTS: 1
236. ANS: B PTS: 1
237. ANS: D PTS: 1
238. ANS: A PTS: 1
239. ANS: B PTS: 1
240. ANS: A PTS: 1
241. ANS: B PTS: 1
242. ANS: D PTS: 1
243. ANS: B PTS: 1
244. ANS: A PTS: 1
245. ANS: A PTS: 1
246. ANS: B PTS: 1
247. ANS: A PTS: 1
248. ANS: A PTS: 1
249. ANS: B PTS: 1
250. ANS: C PTS: 1