

**SC STATE FORESTRY CDE  
WRITTEN EXAM  
2001**

- 1.) The national organization for professional foresters is the \_\_\_\_
  - a.) American Forest Council
  - b.) International Society of Tropical Foresters
  - c.) Society of American Foresters
  - d.) United States Forest Service
  
- 2.) The class of trees, Gymnospermsae, is made up of \_\_\_\_ trees.
  - a.) Broadleaf
  - b.) Conifers
  - c.) Deciduous
  - d.) Hardwood
  
- 3.) Roots that grow horizontally and help keep the tree upright are \_\_\_\_.
  - a.) Feeder roots and root hairs
  - b.) Lateral roots
  - c.) Surface roots
  - d.) Tap roots
  
- 4.) Which of the following terms is used to describe leaf margins?
  - a.) Acute
  - b.) Deltoid
  - c.) Lobed
  - d.) Wedge shaped
  
- 5.) Which of the following processes uses shelterwood methods of harvesting to promote regeneration?
  - a.) Cuttings
  - b.) Direct seeding
  - c.) Natural seeding
  - d.) Seedlings
  
- 6.) When cruising timber and calculating board volume, a forester records merchantable height and rounds to the nearest \_\_\_\_.
  - a.) 1 inch
  - b.) 1 foot
  - c.) 8' log
  - d.) 16' log
  
- 7.) A process to remove damaging dominant trees in an all aged stand is called \_\_\_\_.
  - a.) Liberations
  - b.) Salvage Cuttings
  - c.) Sanitation Cuttings
  - d.) Thinning
  
- 8.) An azimuth reading of 196 degrees would convert to a bearing of \_\_\_\_.
  - a.) 96 degrees S
  - b.) 196 degrees S
  - c.) S 16 degrees W
  - d.) 16 degrees SW

- 9.) How many cords are there in a stack of wood 4' x 8' x 10'?
- 2.5
  - 2.0
  - 1.5
  - 1.0
- 10.) A backfire extinguishes a fire by \_\_\_.
- Creating a strong updraft
  - Drying out the soil
  - Robbing the fire of fuel
  - Using oxygen in the vicinity of the main fire
- 11.) Which of the following is NOT a benefit of trees to the environment?
- Increase pollutants to the environment
  - Influence the climate
  - Provide a habitat to wildlife
  - Provide oxygen to the atmosphere
- 12.) A tree with a crown in the general canopy level but with little direct light from the side is called a/an \_\_\_ tree.
- Codominant
  - Dominant
  - Intermediate
  - Suppressed
- 13.) The class of trees, Angiospermae, is made up of \_\_\_ trees.
- Broadleaf
  - Conifer
  - Evergreen
  - Hardwood
- 14.) The function of phloem in the tree is to \_\_\_.
- Develop leaves from nutrients
  - Carry food made in the leaves down to the branches, trunk, and roots
  - Grow wood and bark cells
  - Produce carbohydrates through photosynthesis
- 15.) Merchantable height can be estimated in the field with a \_\_\_.
- Hypsometer
  - Planimeter
  - Stereoscope
  - Transit
- 16.) During a year of good growth, a tree will have a \_\_\_ annual ring.
- Colorful
  - Missing
  - Narrow
  - Wide
- 17.) The basal area per acre is \_\_\_ if a person has counted 24 trees with a 10-factor prism.
- 60
  - 120
  - 180
  - 240

- 18.) The burning of peat and humus which produces intense heat below the surface and downward is a \_\_\_\_.
- a.) Crown fire
  - b.) Ground fire
  - c.) Surface fire
  - d.) Wildfire
- 19.) A fire that has been started intentionally by a forester to be used as a management tool is a \_\_\_\_.
- a.) Crown fire
  - b.) Prescribed burn
  - c.) Surface fire
  - d.) Wildfire
- 20.) The color used to depict vegetation on a topographic map is \_\_\_\_.
- a.) Blue
  - b.) Green
  - c.) Red
  - d.) Yellow
- 21.) A plot of ground is 30 chains long and 16 chains wide. It contains \_\_\_\_.
- a.) 48 acres
  - b.) 480 acres
  - c.) 200 hectares
  - d.) 48 hectares
- 22.) The distinctive feature of topographic maps is the \_\_\_\_.
- a.) location of forest land
  - b.) location of landmarks
  - c.) roads and waterways
  - d.) shape of the land
- 23.) Which of the following symbols is depicted by a solid square with a pennant on top of it?
- a.) barn
  - b.) cemetery
  - c.) school
  - d.) warehouse
- 24.) A drip torch is used in \_\_\_\_.
- a.) felling trees
  - b.) insect and disease control
  - c.) planting seedlings
  - d.) prescribed burns
- 25.) A sanitation cut may be used to prevent an outbreak of forest pests. The trees removed \_\_\_\_.
- a.) are injured and not merchantable
  - b.) are injured and may be merchantable
  - c.) are only cut if dying
  - d.) include all trees within 500 yards of the damaged trees

- 26.) Professional foresters spend much of their time working with \_\_\_\_.
- a.) a bulldozer
  - b.) a chainsaw
  - c.) mechanical tree planters
  - d.) people
- 27.) The periodic removal of trees, in one stand, in order to get a better yield is called \_\_\_\_.
- a.) clearcutting
  - b.) thinning
  - c.) seed tree cutting
  - d.) shelterwood cutting
- 28.) The \_\_\_\_\_ CANNOT be used to measure acreage in the woods.
- a.) hand compass
  - b.) planimeter
  - c.) staff compass
  - d.) steel tape
- 29.) When a landowner sells timber, the timber sales contract should include \_\_\_\_.
- a.) a time limit for completion of the timber harvest
  - b.) provisions for damage to residual trees in the stand
  - c.) provision for heights of stumps on trees harvested
  - d.) all of the above
- 30.) A wedge prism is used to measure the \_\_\_\_ of trees in a stand.
- a.) basal area
  - b.) board foot volume
  - c.) diameter
  - d.) cubic foot volume
- 31.) A non-grass herbaceous plant is called a \_\_\_\_.
- a.) forb
  - b.) forage
  - c.) forest
  - d.) tree
- 32.) In 1964, Congress passed the Federal Wilderness Act. Today, more than 21 million acres are set aside for future generations to enjoy. By law, travel in wilderness areas can only be \_\_\_\_.
- a.) by boat without a motor
  - b.) on foot
  - c.) on horseback
  - d.) all of the above
- 33.) A cant that measures 6" x 12" x 20' contains \_\_\_\_ board feet of lumber.
- a.) 6 bd. ft.
  - b.) 48 bd. ft.
  - c.) 120 bd. ft.
  - d.) 1440 bd. ft.

- 34.) In measuring the site index of a tree, which criteria must be measured?
- a.) age of a tree and merchantable height
  - b.) age of a tree and total tree height
  - c.) DBH and total tree height
  - d.) merchantable height and DBH
- 35.) A 10% cruise on 100 acres would require a forester to measure \_\_\_ 1/4-acre plots.
- a.) 4
  - b.) 10
  - c.) 40
  - d.) 50
- 36.) If a forester plants seedlings on an 6' x 8' spacing, then the person will plant \_\_\_ seedlings per acre.
- a.) 436
  - b.) 520
  - c.) 680
  - d.) 908
- 37.) When measuring with a compass, the line of sight that runs halfway between North and West has a bearing of:
- a.) N 60 degrees W
  - b.) N 45 degrees W
  - c.) S 60 degrees W
  - d.) S 45 degrees E
- 38.) The debris left after logging, such as limbs, tops, culls, and knockdown trees is called \_\_\_.
- a.) trash
  - b.) kerf
  - c.) stumpage
  - d.) slash
- 39.) "Heeled-in" refers to:
- a.) a temporary planting
  - b.) a successful graft that is beginning to grow
  - c.) using one's heel to press the tree in a hole
  - d.) none of the above
- 40.) Which of the following hardwoods has opposite branching?
- a.) Beech
  - b.) Hickory
  - c.) Maple
  - d.) White Oak
- 41.) Which conifer is not native to the eastern part of the United States?
- a.) Douglas Fir
  - b.) Loblolly Pine
  - c.) Longleaf Pine
  - d.) Slash Pine

- 42.) Kerf refers to :
- a.) a type of log scale
  - b.) cut width of the blade
  - c.) log volume
  - d.) the distance between the chain and the bar
- 43.) The function of the xylem in the tree is to:
- a.) develop leaves from nutrients
  - b.) conduct water and minerals to the crown
  - c.) grow wood and bark cells
  - d.) produce carbohydrates through photosynthesis
- 44.) An acre of land equals:
- a.) 1.5 hectares
  - b.) 10 square chains
  - c.) 5,280 feet on a side
  - d.) 43,560 cubic feet
- 45.) The removal of live or dead branches from standing trees is called \_\_\_\_.
- a.) delimiting
  - b.) pruning
  - c.) thinning
  - d.) timber stand improvement
- 46.) If a forester plants seedlings on an 10' x 10' spacing, then the person will plant \_\_\_\_ seedlings per acre.
- a.) 436
  - b.) 520
  - c.) 680
  - d.) 908
- 47.) How many cords of wood is there in a pile 4' x 4' x 12'?
- a.) 1.4
  - b.) 1.5
  - c.) 1
  - d.) 2
- 48.) Defective trees are of least concern when they are marketed as:
- a.) chip and saw
  - b.) poles
  - c.) pulpwood
  - d.) sawlogs
- 49.) A forester performing a 20% cruise on 160 acres will need to take \_\_\_ 1/4 acre plots.
- a.) 160
  - b.) 128
  - c.) 80
  - d.) 40
- 50.) Primary succession is
- a.) the first few stages of succession in a new forest
  - b.) the first stages to occur on sites that have not previously born vegetation
  - c.) the first stages of succession after a wildfire
  - d.) the first stages of succession after a clearcut

- 51.) Which of the following is true about habitat management for wildlife?
- a.) habitat management for wildlife is never cost-effective
  - b.) all forest changes benefit some wildlife species and impacts others
  - c.) wildlife species have narrow habitat requirements
  - d.) landowners never realize an economic benefit from wildlife management
- 52.) Which of the following are ways an owner might be able to receive income from his woodlot?
- a.) commercial sales
  - b.) hunting leases
  - c.) pine straw
  - d.) all the above
- 53.) A standard cord of stacked wood is
- a.) 136 cubic feet
  - b.) 4 x 8 feet of sticks 4 feet in length
  - c.) 128 cubic feet
  - d.) a and b
  - e.) b and c
- 54.) Which of the following is not a means of transferring heat?
- a.) conduction
  - b.) invective
  - c.) radiation
  - d.) convection
- 55.) How tall is a sweetgum tree that is 50 years old and has a site index of 90 (base age 50)?
- a.) 35 feet
  - b.) 90 feet
  - c.) 100 feet
  - d.) 120 feet
- 56.) A fire burning through tree tops is called
- a.) articulated
  - b.) prescribed fire
  - c.) crown fire
  - d.) ground fire
- 57.) The gypsy moth is a :
- a.) skeletonizer
  - b.) wood borer
  - c.) scaler
  - d.) defoliator
- 58.) Red-cockaded woodpeckers are primary excavators.
- a.) True
  - b.) false
- 59.) If trees are planted on an 8' x 8' basis, how many trees/acre results?
- a.) 640
  - b.) 680
  - c.) 800
  - d.) 1000

- 60.) With a 10-BAF prism, each tree considered “in” represents 10 square feet BA per acre.
- a.) true
  - b.) false