**Forestry**

**MULTIPLE CHOICE**

 1. A transitional zone where two eco - types interface is known as:

|  |  |  |  |
| --- | --- | --- | --- |
| a. | borders | c. | edges |
| b. | boundaries | d. | perimeters |

ANS: C PTS: 1

 2. Release, a chemical treatment of a pine plantation to reduce competing vegetation, is performed:

|  |  |  |  |
| --- | --- | --- | --- |
| a. | before planting | c. | before harvest |
| b. | after harvest | d. | after harvest |

ANS: B PTS: 1

 3. The use of management practices to improve the quality and value of the trees in a stand is known as:

|  |  |  |  |
| --- | --- | --- | --- |
| a. | balanced stand improvement | c. | sustained stand improvement |
| b. | per-commercial stand improvement | d. | timber stand improvement |

ANS: D PTS: 1

 4. The male part of the reproductive system of a plant that contains the pollen is the:

|  |  |  |  |
| --- | --- | --- | --- |
| a. | pistil | c. | stigma |
| b. | stamen | d. | stomata |

ANS: B PTS: 1

 5. Southern pine beetle infestation is frequently preceded by:

|  |  |  |  |
| --- | --- | --- | --- |
| a. | excessive rain | c. | high soil fertility |
| b. | extended drought | d. | overgrown canopy |

ANS: B PTS: 1

 6. An instrument used for measuring heights of trees is a:

|  |  |  |  |
| --- | --- | --- | --- |
| a. | caliper | c. | dendrometer  |
| b. | clinometer | d. | hypsometer |

ANS: D PTS: 1

 7. On topographic maps, forested lands are shown in

|  |  |  |  |
| --- | --- | --- | --- |
| a. | black | c. | green |
| b. | blue | d. | red |

ANS: C PTS: 1

 8. How many trees, planted on an 8 X 10 spacing, would be planted on 40 acres?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 20,250 | c. | 22,600 |
| b. | 21,800 | d. | 35,000 |

ANS: B PTS: 1

 9. Carefully, digging out an occasional plant and removing all its roots in the early spring when soil is moist is a mechanical means of controlling:

|  |  |  |  |
| --- | --- | --- | --- |
| a. | honeysuckle | c. | poison ivy |
| b. | kudzu | d. | wolf trees |

ANS: C PTS: 1

 10. To assure that all handles and guards on a chainsaw are in place and tight, that all controls function properly, and that the muffler is operative, chainsaws should be inspected.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | bi-weekly | c. | monthly |
| b. | daily | d. | weekly |

ANS: B PTS: 1

 11. Which of these common trees in Alabama has opposite leaves?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | ash | c. | all answers are correct |
| b. | dogwood | d. | none of the answers are correct |

ANS: D PTS: 1

 12. Cutting to remove injured, diseases or vulnerable trees in a stand regardless or merchantability is known as:

|  |  |  |  |
| --- | --- | --- | --- |
| a. | clear cutting | c. | selection cutting |
| b. | sanitation cutting | d. | shelterwood cutting |

ANS: B PTS: 1

 13. An instrument that allows a viewer to see a three-dimensional model when viewing two separate images of the same terrain is call a (an)

|  |  |  |  |
| --- | --- | --- | --- |
| a. | hookeroom scope | c. | prismscope |
| b. | peavy scope | d. | stereoscope |

ANS: D PTS: 1

 14. A complex method of cutting and removing individual trees throughout the stand depending upon maturity, growth, diameter and vigor is known as:

|  |  |  |  |
| --- | --- | --- | --- |
| a. | liberation cutting | c. | selection cutting |
| b. | salvage cutting | d. | shelterwood cutting |

ANS: C PTS: 1

 15. The advantage(s) of natural regeneration is(are) that it is:

|  |  |  |  |
| --- | --- | --- | --- |
| a. | inexpensive | c. | ongoing  |
| b. | offers more variety | d. | all answers are correct |

ANS: D PTS: 1

 16. A fire which runs over the forest floor and burns only the surface litter, loose debris, and smaller vegetation is known as a(an)

|  |  |  |  |
| --- | --- | --- | --- |
| a. | crown fire | c. | surface fire |
| b. | ground fire | d. | wildfire |

ANS: C PTS: 1

 17. Sawtimber is sold by the:

|  |  |  |  |
| --- | --- | --- | --- |
| a. | board feet | c. | linear square |
| b. | cubic feet | d. | square feet |

ANS: A PTS: 1

 18. The national organization for professional foresters is known as the:

|  |  |  |  |
| --- | --- | --- | --- |
| a. | American Society of Foresters | c. | Society of American Foresters |
| b. | National Organization of Foresters | d. | Society of Forestry |

ANS: C PTS: 1

 19. What tree species represents the largest volume of timber and the widest range in Alabama?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | loblolly pine | c. | white oak |
| b. | shortleaf pine | d. | yellow popular |

ANS: A PTS: 1

 20. Plants whose seeds are not enclosed, such as pines, are called:

|  |  |  |  |
| --- | --- | --- | --- |
| a. | angiosperm | c. | gymnosperm |
| b. | coniferous | d. | monosperm |

ANS: C PTS: 1

 21. Planting forest trees seedling should not be attempted if the ground temperature is between:

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 10° F and 20° F | c. | 30° F and 40° F |
| b. | 20° F and 30° F | d. | 40° F and 50° F |

ANS: A PTS: 1

 22. Dominant, co-dominant, intermediate, and suppressed (overtopped) are the four main:

|  |  |  |  |
| --- | --- | --- | --- |
| a. | crown classes | c. | overstory classes |
| b. | canopy classes | d. | understory classes |

ANS: A PTS: 1

 23. A cutting method where only a portion of the stand is removed at any one time in order to obtain natural is called

|  |  |  |  |
| --- | --- | --- | --- |
| a. | clear cutting | c. | selection cutting |
| b. | seed tree cutting | d. | shelterwood cutting |

ANS: D PTS: 1

 24. A fire that consumes not only all the organic materials of the forest floor, but also burns into the underlying soil is a(an):

|  |  |  |  |
| --- | --- | --- | --- |
| a. | crown fire | c. | surface fire |
| b. | ground fire | d. | wildfire |

ANS: B PTS: 1

 25. A piece of equipment used for felling timber, de-limbing, and bucking logs is a(an)

|  |  |  |  |
| --- | --- | --- | --- |
| a. | canthook | c. | peavy |
| b. | chainsaw | d. | pulaski |

ANS: B PTS: 1

 26. How many 1/4 acre plots will a forester measure on a 10% cruise of 100 acres?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 10 | c. | 30 |
| b. | 20 | d. | 40 |

ANS: D PTS: 1

 27. Fungi, viruses, and bacteria that contribute to the life cycle of all organisms are known as

|  |  |  |  |
| --- | --- | --- | --- |
| a. | microorganisms | c. | suppressed organisms |
| b. | spore organisms | d. | systemic organism |

ANS: A PTS: 1

 28. The diagram at the right depicts which of the following leaf arrangement?



|  |  |  |  |
| --- | --- | --- | --- |
| a. | opposite | c. | alternate |
| b. | whorled | d. | compound |

ANS: C PTS: 1

 29. The purpose of the \_\_\_\_\_\_\_\_\_\_\_\_\_\_ is to recognize landowners who are practicing forest management

|  |  |  |  |
| --- | --- | --- | --- |
| a. | Farm Tree System | c. | Tree Farm Stand |
| b. | Forest Tree System | d. | Tree Stand System |

ANS: C PTS: 1

 30. The methods(s) of regenerating a stand of timber is (are)

|  |  |  |  |
| --- | --- | --- | --- |
| a. | artificial  | c. | both artificial and natural |
| b. | natural | d. | no correct answers are present |

ANS: C PTS: 1

 31. The process by which sunlight is converted into energy is known as:

|  |  |  |  |
| --- | --- | --- | --- |
| a. | evaporation | c. | respiration |
| b. | photosynthesis | d. | transpiration |

ANS: B PTS: 1

 32. The most fire-resistant tree grown in Alabama is the:

|  |  |  |  |
| --- | --- | --- | --- |
| a. | longleaf pine | c. | white oak |
| b. | sweetgum | d. | yellow popular |

ANS: A PTS: 1

 33. On topographic maps, landmarks and roads are shown in:

|  |  |  |  |
| --- | --- | --- | --- |
| a. | black | c. | green  |
| b. | blue | d. | red |

ANS: A PTS: 1

 34. Which of the following should be considered when preparing a timber sales contract?

|  |  |
| --- | --- |
| a. | provisions that specify the amount, manner, time and method of payment |
| b. | a legal description of the property |
| c. | provisions for settling disagreements |
| d. | all choices are correct |

ANS: D PTS: 1

 35. A township is 6 square miles. How many acres does a township contain?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 20,215 | c. | 23,040 |
| b. | 22,635 | d. | 24,015 |

ANS: C PTS: 1

 36. An indirect measure of a site quality for a given species, usually the height of the dominants at a given base age, is known as the:

|  |  |  |  |
| --- | --- | --- | --- |
| a. | maximum growth curve | c. | rotation age |
| b. | maximum sustained yield | d. | site index |

ANS: D PTS: 1

 37. What spacing is required for sawtooth oaks planted as wildlife food?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 10 feet apart in rows 15-20 feet wide | c. | 20 feet apart in rows 15-20 feet wide |
| b. | 15 feet apart in rows 20-25 feet wide | d. | 25 feet apart in rows 20-2 feet wide |

ANS: D PTS: 1

 38. When tree growth slows drastically and responds very little to thinning, a condition exists known as:

|  |  |  |  |
| --- | --- | --- | --- |
| a. | stagnation | c. | succession |
| b. | stratification | d. | suppression |

ANS: A PTS: 1

 39. Factor(s) affecting direct seeding is(are)

|  |  |  |  |
| --- | --- | --- | --- |
| a. | buying the seed | c. | sowing |
| b. | preparing the site | d. | all answer choices are correct |

ANS: D PTS: 1

 40. The most important part of a tree is the

|  |  |  |  |
| --- | --- | --- | --- |
| a. | flowers | c. | root system |
| b. | leaves | d. | tree trunk |

ANS: C PTS: 1

 41. Trees usually having numerous white to reddish brown pitch tubes, about the size of a wad of gum, on the bark of the branches or trunk are being attached by the:

|  |  |  |  |
| --- | --- | --- | --- |
| a. | Forest Tent Caterpillar | c. | Pine Sayer |
| b. | Ips Engraver Beetle | d. | Southern Pine Beetle |

ANS: D PTS: 1

 42. In Alabama, which of the following causes more damage to timber?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | disease | c. | weeds |
| b. | insects | d. | wildlife |

ANS: B PTS: 1

 43. On topographic maps, boundaries and monuments are shown in:

|  |  |  |  |
| --- | --- | --- | --- |
| a. | black | c. | green  |
| b. | blue | d. | red |

ANS: D PTS: 1

 44. A man has a rectangular forest plot that measures 700 feet by 1,300 feet. How many acres in this plot?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 17.69 acres | c. | 20.89 acres |
| b. | 19.20 acres | d. | 21.50 acres |

ANS: C PTS: 1

 45. The Forest Service became part of the Department of Agriculture in:

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 1905 | c. | 1915 |
| b. | 1912 | d. | 1925 |

ANS: A PTS: 1

 46. An auger-like instrument with a hollow bit used to extract cores from trees so growth and age can be determined is a(an)

|  |  |  |  |
| --- | --- | --- | --- |
| a. | caliper borer | c. | scope borer |
| b. | increment borer | d. | tape borer |

ANS: B PTS: 1

 47. A forest managed for timber and wildlife or for timber, aesthetics, and recreation is one example of:

|  |  |  |  |
| --- | --- | --- | --- |
| a. | multiple use management | c. | single use management |
| b. | preferred use management | d. | streamside use management |

ANS: A PTS: 1

 48. How many square chains are in one acre?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 5 square chains | c. | 15 square chains |
| b. | 10 square chains | d. | 20 square chains |

ANS: B PTS: 1

 49. A combination of loss of blood and psychological stress may cause

|  |  |  |  |
| --- | --- | --- | --- |
| a. | exhaustion | c. | shock |
| b. | fatigue | d. | weakness |

ANS: C PTS: 1

 50. Conditions that provide good habitat for snakes include:

|  |  |  |  |
| --- | --- | --- | --- |
| a. | old rock piles | c. | all answers are correct |
| b. | wood brush and trash piles | d. | no correct answers are present |

ANS: D PTS: 1

 51. On what part of the body is a snakebite most likely to occur?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | ankle and lower calf | c. | face and shoulder |
| b. | arm and head | d. | neck and back |

ANS: A PTS: 1

 52. Trees help conserve soil by:

|  |  |  |  |
| --- | --- | --- | --- |
| a. | adding organic matter | c. | preventing soil erosion |
| b. | increasing mineral content | d. | retaining moisture |

ANS: C PTS: 1

 53. The leaf form shown in the diagram is:



|  |  |  |  |
| --- | --- | --- | --- |
| a. | oblong | c. | oval |
| b. | obovate | d. | ovate |

ANS: B PTS: 1

 54. A fixed line of reference running north and south from a baseline is a(an):

|  |  |  |  |
| --- | --- | --- | --- |
| a. | altitude | c. | meridian |
| b. | longitude | d. | parallel |

ANS: C PTS: 1

 55. The two major principal meridians in Alabama are:

|  |  |  |  |
| --- | --- | --- | --- |
| a. | Huntsville and Mobile | c. | St. James and Huntsville |
| b. | Montgomery and Birmingham | d. | St. Stephens and Huntsville |

ANS: D PTS: 1

 56. On topographic maps, streams are shown in:

|  |  |  |  |
| --- | --- | --- | --- |
| a. | blue | c. | red |
| b. | green | d. | white |

ANS: A PTS: 1

 57. Trees are used to produce:

|  |  |  |  |
| --- | --- | --- | --- |
| a. | sawlogs | c. | sawlogs and pulpwood |
| b. | pulpwood | d. | no answers are correct |

ANS: C PTS: 1

 58. The process by which carbon dioxide enter a plant and oxygen is released to the atmosphere is known as:

|  |  |  |  |
| --- | --- | --- | --- |
| a. | oxidation | c. | transpiration |
| b. | respiration | d. | photosynthesis |

ANS: B PTS: 1

 59. A continuous group of trees, uniform in composition, age and arrangement to be distinguished from other areas is a(an)

|  |  |  |  |
| --- | --- | --- | --- |
| a. | crown | c. | stand |
| b. | shelter | d. | stock |

ANS: C PTS: 1

 60. The appearance of many defoliated trees is the first normal sign indicating an attack of the:

|  |  |  |  |
| --- | --- | --- | --- |
| a. | Black Turpentine Beetle | c. | Lps Bark Beetle |
| b. | Forest Tent Caterpillar | d. | Southern Pine Beetle |

ANS: B PTS: 1

 61. Virginia creeper has \_\_\_\_\_\_\_\_\_\_\_ leaflets

|  |  |  |  |
| --- | --- | --- | --- |
| a. | three | c. | five |
| b. | four | d. | six |

ANS: C PTS: 1

 62. Pins used to mark out chain lengths or shorter lengths while measuring a longer distance are known as:

|  |  |  |  |
| --- | --- | --- | --- |
| a. | chaining pins | c. | pulaski pins |
| b. | McLeod pins | d. | steel pins |

ANS: A PTS: 1

 63. The herbicide most widely used to control kudzu is:

|  |  |  |  |
| --- | --- | --- | --- |
| a. | Atrazine | c. | Roundup |
| b. | Capture | d. | Tordon |

ANS: D PTS: 1

 64. Poison sumac grows most commonly in areas with:

|  |  |  |  |
| --- | --- | --- | --- |
| a. | dry, acid soil | c. | wet, acid soil |
| b. | dry, alkaline soil | d. | wet, alkaline soil |

ANS: C PTS: 1

 65. On topographic maps, open lands are shown in:

|  |  |  |  |
| --- | --- | --- | --- |
| a. | blue | c. | red |
| b. | black | d. | white |

ANS: D PTS: 1

 66. The act of preying upon is known as:

|  |  |  |  |
| --- | --- | --- | --- |
| a. | hypodation | c. | predation |
| b. | popundation | d. | prediction |

ANS: C PTS: 1

 67. A tool used for rolling logs is a(an)

|  |  |  |  |
| --- | --- | --- | --- |
| a. | firebroom bar | c. | pulaski |
| b. | peavy and canthook | d. | wedge |

ANS: B PTS: 1

 68. A steel tape calibrated in chains (66 feet) and links (100 links per chain) is a(an)

|  |  |  |  |
| --- | --- | --- | --- |
| a. | caliper chain | c. | dibble chain |
| b. | clinometer chain | d. | surveyor’s chain |

ANS: D PTS: 1

 69. The purpose of “out sloped roads is to:

|  |  |  |  |
| --- | --- | --- | --- |
| a. | to disperse water collected in road slides ditches | c. | to quickly drain road surfaces from the center of the road to side ditches |
| b. | to drain off water as quickly as possible | d. | there are no correct answers present |

ANS: B PTS: 1

 70. Different types of animals need different types of:

|  |  |  |  |
| --- | --- | --- | --- |
| a. | brush and rock piles | c. | perennial legumes |
| b. | food sources and cover | d. | all answers are correct |

ANS: B PTS: 1

 71. The common leaf form in the diagram is:



|  |  |  |  |
| --- | --- | --- | --- |
| a. | awl-like | c. | elliptical |
| b. | cordate | d. | linear |

ANS: A PTS: 1

 72. A fire burning out of control is known as a (an)

|  |  |  |  |
| --- | --- | --- | --- |
| a. | crown fire | c. | surface fire |
| b. | ground fire | d. | wildfire |

ANS: D PTS: 1

 73. Fords may be used where:

|  |  |  |  |
| --- | --- | --- | --- |
| a. | banks are low | c. | the stream is shallow |
| b. | the stream bed is firm | d. | all answer choices are correct |

ANS: D PTS: 1

 74. A 5 x 10 feet plant spacing is recommended for:

|  |  |  |  |
| --- | --- | --- | --- |
| a. | loblolly pine | c. | shortleaf pine |
| b. | longleaf pine  | d. | slash pine |

ANS: B PTS: 1

 75. The first thing to do to a person after an accident is to:

|  |  |  |  |
| --- | --- | --- | --- |
| a. | cover the person with a blanket or your coat | c. | open up the air passage |
| b. | make sure the injured person’s air passage is open, and the person is breathing. | d. | tilt the head back |

ANS: B PTS: 1

 76. Closely spaced annual rings in a tree signify:

|  |  |  |  |
| --- | --- | --- | --- |
| a. | diseased during growth | c. | intermediate growth |
| b. | fast growth | d. | slow growth |

ANS: D PTS: 1

 77. In order to survive, wildlife need:

|  |  |  |  |
| --- | --- | --- | --- |
| a. | cover | c. | space |
| b. | food and water | d. | food, water, space and cover |

ANS: D PTS: 1

 78. The identification and systematic classification of trees is known as:

|  |  |  |  |
| --- | --- | --- | --- |
| a. | angiology | c. | gymology |
| b. | dendrology | d. | monology |

ANS: B PTS: 1

 79. On a course 10% cruise of 100 acres, a forester will measure \_\_\_\_ tenth-acre plots.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 10 | c. | 100 |
| b. | 50 | d. | 150 |

ANS: C PTS: 1

 80. There are \_\_\_\_\_ sections in one township

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 12 | c. | 36 |
| b. | 24 | d. | 48 |

ANS: C PTS: 1

 81. To manufacture food through photosynthesis is the function of a(an)

|  |  |  |  |
| --- | --- | --- | --- |
| a. | flower | c. | root |
| b. | leaf | d. | stem |

ANS: B PTS: 1

 82. The wise use of natural resources over time is known as:

|  |  |  |  |
| --- | --- | --- | --- |
| a. | biodiversity | c. | conservation |
| b. | capacity sharing | d. | environmental survival |

ANS: C PTS: 1

 83. A fire set along a natural or artificial firebreak and permitted to spread against the wind is known as a(an)

|  |  |  |  |
| --- | --- | --- | --- |
| a. | backfire | c. | ground fire |
| b. | crown fire | d. | surface fire |

ANS: A PTS: 1

 84. The total cost of four pieces of 1 X 12 boards that are 14 feet long priced at $0.92/bd.ft. is:

|  |  |  |  |
| --- | --- | --- | --- |
| a. | $41.52 | c. | $58.25 |
| b. | $51.52 | d. | $61.15 |

ANS: B PTS: 1

 85. Bright orange spots on a pine tree are a symptom of:

|  |  |  |  |
| --- | --- | --- | --- |
| a. | Annosus Rot | c. | Fusiform Rust |
| b. | Brown Spot | d. | Littleleaf Rust |

ANS: C PTS: 1

 86. The sapwood that carries water and minerals absorbed by the roots to the leaves is known as the:

|  |  |  |  |
| --- | --- | --- | --- |
| a. | cambium | c. | phloem |
| b. | epidermis | d. | xylem |

ANS: D PTS: 1

 87. The total cost of 10 pieces of 2 X 4’s that are 12 in length priced at $0.85/bd. ft is:

|  |  |  |  |
| --- | --- | --- | --- |
| a. | $52.00 | c. | $68.00 |
| b. | $58.00 | d. | $73.00 |

ANS: C PTS: 1

 88. What type thinning is used when a stand’s growth will stagnate before merchantability, usually on natural regenerated or direct seeded stands?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | pre-commercial thinning | c. | sanitation thinning |
| b. | salvage thinning | d. | sustained thinning |

ANS: A PTS: 1

 89. Voluntary guidelines used in forestry practices to maintain and protect water quality are known as:

|  |  |  |  |
| --- | --- | --- | --- |
| a. | Best management Practices (BMPs) | c. | Streamside Management Practices (SMPs) |
| b. | Multiple Use Practices (MUPs) | d. | Transitional Zone Practices (TZPs) |

ANS: A PTS: 1

 90. A tool used in prescribed burning and fire control is a(an):

|  |  |  |  |
| --- | --- | --- | --- |
| a. | dibble torch | c. | hookeroon torch |
| b. | drip torch | d. | shotgun torch |

ANS: B PTS: 1

 91. The type of cutting that involves leaving many seed trees is known as:

|  |  |  |  |
| --- | --- | --- | --- |
| a. | clear cutting | c. | selection cutting |
| b. | seed-tree cutting | d. | shelterwood cutting |

ANS: D PTS: 1

 92. A scar on the surface of a log resulting from wounds that have not healed over is known as a (an):

|  |  |  |  |
| --- | --- | --- | --- |
| a. | catface | c. | roundface |
| b. | kerfface | d. | scaleface |

ANS: A PTS: 1

 93. The common leaf form shown in the diagram is:



|  |  |  |  |
| --- | --- | --- | --- |
| a. | oblong | c. | oval  |
| b. | obovate | d. | ovate |

ANS: A PTS: 1

 94. A burn permit can be obtained from the:

|  |  |  |  |
| --- | --- | --- | --- |
| a. | Alabama Department of Agriculture | c. | County Extension Agent |
| b. | Alabama Forestry Commission | d. | Society of American Foresters |

ANS: B PTS: 1

 95. A pine stand should be prescribed burned every \_\_\_\_\_\_\_ to reduce fuels

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 6 months | c. | 3 to 5 years |
| b. | 1 to 2 years | d. | 7 to 9 years |

ANS: C PTS: 1

 96. The study of forest tree diseases is known as

|  |  |  |  |
| --- | --- | --- | --- |
| a. | forest entomology | c. | forest pathology |
| b. | forest herbiology | d. | forest taxonomy |

ANS: C PTS: 1

 97. What percentage of Alabama’s land is forested?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 33% | c. | 66% |
| b. | 50% | d. | 72% |

ANS: C PTS: 1

 98. A wedge-shaped glass instrument that, through displacement, aids in the he measurement of a basal area is a(an):

|  |  |  |  |
| --- | --- | --- | --- |
| a. | altimer | c. | prism |
| b. | compass | d. | stereoscope |

ANS: C PTS: 1

 99. Important characteristics used in tree identification include:

|  |  |  |  |
| --- | --- | --- | --- |
| a. | fruit | c. | twigs and bark |
| b. | leaves | d. | fruit, leaves, twigs and bark |

ANS: D PTS: 1

 100. How many acres are in this plot?



|  |  |  |  |
| --- | --- | --- | --- |
| a. | 7.46 acres | c. | 8.25 acres |
| b. | 7.75 acres | d. | 9 acres |

ANS: A PTS: 1

 101. The major damage caused to coniferous trees by the Nantucket Pine Tip Moth is:

|  |  |  |  |
| --- | --- | --- | --- |
| a. | damage to terminal and leaders of pine seedling and saplings | c. | formation of fungus-fruiting bodies at the base of the trees |
| b. | defoliation and subsequent death of the seedling | d. | yellowing or browning of the needles |

ANS: A PTS: 1

 102. A method of fire control used when fires are not too intense and are moving slowly, where the fire is attached at the furthermost point of advance or the “head” of the fire and burning material is raked into the burned area is known as:

|  |  |  |  |
| --- | --- | --- | --- |
| a. | back attack | c. | indirect attack |
| b. | direct attack | d. | spot attack |

ANS: B PTS: 1

 103. Deer, quail, rodents, and seed-eating birds thrive in the excellent habitat provided by \_\_\_\_\_\_\_\_ in their early stages.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | clear cuts | c. | seed-tree cuts |
| b. | intermediate cuts | d. | selection cuts |

ANS: A PTS: 1

 104. A fire line should be to the depth of the \_\_\_\_\_\_\_\_\_ to stop burning.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | mineral soil | c. | rock layer |
| b. | organic materials | d. | none of the above |

ANS: A PTS: 1

 105. You should be at least \_\_\_\_\_\_\_\_\_ away from the fueling area before starting a chainsaw.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 4 feet | c. | 8 feet |
| b. | 6 feet | d. | 10 feet |

ANS: D PTS: 1

 106. Strips of land cleared of all inflammable materials are:

|  |  |  |  |
| --- | --- | --- | --- |
| a. | duff breaks | c. | prescribed breaks |
| b. | firebreaks | d. | slash breaks |

ANS: B PTS: 1

 107. Trees differ from other farm commodities in that they:

|  |  |  |  |
| --- | --- | --- | --- |
| a. | are accessible to many different markets | c. | all answer choices are correct |
| b. | can be stored on the stump until conditions improve | d. | none of the answer choices are correct |

ANS: C PTS: 1

 108. The leaf characteristics in the drawing is the:



|  |  |  |  |
| --- | --- | --- | --- |
| a. | auxiliary bud | c. | margin |
| b. | lateral vein | d. | node |

ANS: A PTS: 1

 109. The process of clear cutting the stand after the peak of seed fall, but before the start of germination is known as:

|  |  |  |  |
| --- | --- | --- | --- |
| a. | seed in place | c. | stagnation in place |
| b. | seedling in place | d. | standing in place |

ANS: A PTS: 1

 110. On a 7 1/2-minute series topographic map, a scale of 1:24,000 means that 1-inch equals

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 500 feet | c. | 1500 feet |
| b. | 1000 feet | d. | 2000 feet |

ANS: D PTS: 1

 111. Forest trees are reproduced by:

|  |  |  |  |
| --- | --- | --- | --- |
| a. | sprouts  | c. | seeds |
| b. | suckers | d. | all answers are correct |

ANS: D PTS: 1

 112. The process by which water vapor leaves a living plant and enters the atmosphere is known as:

|  |  |  |  |
| --- | --- | --- | --- |
| a. | photosynthesis | c. | transpiration |
| b. | respiration | d. | no answer choices are correct |

ANS: C PTS: 1

 113. The purpose of \_\_\_\_\_\_\_\_\_\_\_\_ is to quickly drain road surfaces from the center of the road to side ditches

|  |  |  |  |
| --- | --- | --- | --- |
| a. | crowned roads | c. | service roads |
| b. | out sloped roads | d. | turnout roads |

ANS: A PTS: 1

 114. On topographic maps, contour lines U’s point in what direction?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | downhill | c. | south by southeast |
| b. | north by northwest | d. | uphill |

ANS: A PTS: 1

 115. The portion of trees in a stand below the overstory is known as the:

|  |  |  |  |
| --- | --- | --- | --- |
| a. | canopy | c. | understory |
| b. | crown | d. | all choices are correct |

ANS: C PTS: 1

 116. A wildlife management term frequently expressed as a number indicating the populations of any given animal that a given area can support id:

|  |  |  |  |
| --- | --- | --- | --- |
| a. | carrying capacity | c. | resident rate |
| b. | habitat | d. | survival rate |

ANS: A PTS: 1

 117. \_\_\_\_\_\_\_\_\_\_\_\_\_\_ prevent misunderstandings and protects both the buyer and the seller.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | carrying capacity agreements | c. | stocking agreements |
| b. | scaling agreements | d. | written sales agreements |

ANS: D PTS: 1

 118. An indirect measure of site quality for a given species, usually the height of the dominants at a given base age (25, 50 or 100 years) is known as the:

|  |  |  |  |
| --- | --- | --- | --- |
| a. | capacity index | c. | stand index |
| b. | site index | d. | stocking index |

ANS: A PTS: 1

 119. A stand of timber in which 80% of the stand is the same age is known as a (an)

|  |  |  |  |
| --- | --- | --- | --- |
| a. | even aged stand | c. | pure stand |
| b. | mixed stand | d. | uneven-aged stand |

ANS: A PTS: 1

 120. Pines should have a DBH of \_\_\_\_\_\_\_ inches or larger before being burned.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 1 | c. | 3 |
| b. | 2 | d. | 4 |

ANS: D PTS: 1

 121. Usually, seedlings should be planted from:

|  |  |  |  |
| --- | --- | --- | --- |
| a. | April 1 until June 1 | c. | October 1 until November 1. |
| b. | July 1 until September 1 | d. | December 1 until March 1 |

ANS: D PTS: 1

 122. A stand in which at least 75% of the trees in the main crown canopy are a single species in known as a (an)

|  |  |  |  |
| --- | --- | --- | --- |
| a. | pure stand | c. | even aged stand |
| b. | mixed stand | d. | uneven-aged stand |

ANS: A PTS: 1

 123. Alabama can compete with other sections of the country in the economical production of forest and forest products because of:

|  |  |  |  |
| --- | --- | --- | --- |
| a. | heavy rainfall | c. | soils adapted to trees |
| b. | long growing conditions | d. | all answer choices are correct |

ANS: D PTS: 1

 124. Lifting the neck with one hand while pushing down on the forehead with the other hand to tilt the head back is known as the:

|  |  |  |  |
| --- | --- | --- | --- |
| a. | head tilt | c. | respiratory tilt |
| b. | neck tilt | d. | shock tilt |

ANS: A PTS: 1

 125. A stand of trees with three (3) or more age classes is a(an)

|  |  |  |  |
| --- | --- | --- | --- |
| a. | even aged stand | c. | pure stand |
| b. | mixed stand | d. | uneven aged stand |

ANS: D PTS: 1

 126. An instrument use to measure the diameters of logs, consisting of a graduate rule with two arms, one fixed at right angles to one end of the rule, the other sliding parallel to the fixed arm is a (an)

|  |  |  |  |
| --- | --- | --- | --- |
| a. | altimeter | c. | clinometer |
| b. | caliper | d. | hyposometer |

ANS: B PTS: 1

 127. The part of the flower of a plant that contains the ovule is the:

|  |  |  |  |
| --- | --- | --- | --- |
| a. | ovary | c. | sepal |
| b. | petal | d. | stamen |

ANS: A PTS: 1

 128. An instrument used to determine direction is a(an)

|  |  |  |  |
| --- | --- | --- | --- |
| a. | compass | c. | range finder |
| b. | prism | d. | stereoscope |

ANS: A PTS: 1

 129. The area of a circle plot the has a radius of 58 feet is:

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 6,562.96 sq. ft. | c. | 10,562.96 sq. ft. |
| b. | 9,562.96 sq. ft. | d. | 12, 562.96 sq. ft. |

ANS: C PTS: 1

 130. The outside edge of the leaf is the:

|  |  |  |  |
| --- | --- | --- | --- |
| a. | auxiliary margin | c. | leaf margin |
| b. | lateral margin | d. | tip margin |

ANS: C PTS: 1

 131. The program that was responsible for the peak in the pine tree planting that occurred in Alabama during the years 1958 and 1962 is the:

|  |  |  |  |
| --- | --- | --- | --- |
| a. | Environmental Protection Program | c. | Forest Management Program |
| b. | Forest Reforestation Program | d. | Soil Bank Program |

ANS: D PTS: 1

 132. The perennial legume that is planted primarily for bobwhite quail is:

|  |  |  |  |
| --- | --- | --- | --- |
| a. | clover | c. | lespedeza bicolor |
| b. | fescue | d. | native rye |

ANS: C PTS: 1

 133. Tools inserted into wood behind a chain saw to keep the saw blades from being pinched in a cut are:

|  |  |  |  |
| --- | --- | --- | --- |
| a. | hookeroons | c. | pulaskies |
| b. | peavies | d. | wedges |

ANS: D PTS: 1

 134. Seedlings should be planted to:

|  |  |  |  |
| --- | --- | --- | --- |
| a. | any depth, the depth planted does not matter | c. | one inch more than they grew in the nursery |
| b. | one inch less than they grew in the nursery | d. | the same depth they grew in the nursery |

ANS: D PTS: 1

 135. The stocking of a stand with more than the desirable number of trees, basal area or volume per acre needed to attain a given measurement objective is known as:

|  |  |  |  |
| --- | --- | --- | --- |
| a. | overstocking | c. | understocking |
| b. | productive stocking | d. | unproductive stocking |

ANS: A PTS: 1

 136. The place where a plant grows in known as a(an)

|  |  |  |  |
| --- | --- | --- | --- |
| a. | duff | c. | panicle |
| b. | habitat | d. | slash |

ANS: B PTS: 1

 137. How many seedlings would be needed to plant an acre, when the seedlings are planted on an 8 X 10 spacing?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 445 | c. | 645 |
| b. | 545 | d. | 745 |

ANS: B PTS: 1

 138. The degree of timber stocking in managed forests may be controlled by what activity?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | alternating thinning | c. | natural thinning |
| b. | continuous thinning  | d. | periodic thinning |

ANS: D PTS: 1

 139. Starting with a bull’s eye shaped rash, followed by flu symptoms. Then, months later, paralysis, pain, arthritis, and birth defects may follow. This is a symptom of:

|  |  |  |  |
| --- | --- | --- | --- |
| a. | Brown Spot Disease | c. | Lyme Disease |
| b. | Fusiform Disease | d. | Rocky Mountain Spotted Fever |

ANS: C PTS: 1

 140. The type of map that shows the shape or lay of the land is:

|  |  |  |  |
| --- | --- | --- | --- |
| a. | official highway map | c. | topographic maps |
| b. | soil survey map | d. | all answer choices are correct |

ANS: C PTS: 1

 141. Conspicuous pitch tubes on the lower trunk and stumps are the most obvious signs of attack of the:

|  |  |  |  |
| --- | --- | --- | --- |
| a. | Black Turpentine Beetle | c. | Lps Bark Beetle |
| b. | Forest Tent Caterpillar | d. | Southern  |

ANS: A PTS: 1

 142. The arrow in the drawing is pointing to a(an)



|  |  |  |  |
| --- | --- | --- | --- |
| a. | lateral bud | c. | node |
| b. | lenticel | d. | terminal bud |

ANS: A PTS: 1

 143. A tool which cuts into the soil for setting seedling and placing fertilizer pellets into the soil is a(an)

|  |  |  |  |
| --- | --- | --- | --- |
| a. | drip bar | c. | spade bar |
| b. | planting bar | d. | wedge bar |

ANS: B PTS: 1

 144. The most important bark beetles(s) attacking pines in the South is (are):

|  |  |  |  |
| --- | --- | --- | --- |
| a. | Southern Pine Beetles | c. | Lps Engraver Beetle |
| b. | Black Turpentine Beetle | d. | all choices are correct |

ANS: D PTS: 1

 145. The low humps built across highways at short intervals to divert water off a road are called>

|  |  |  |  |
| --- | --- | --- | --- |
| a. | fords | c. | turnout bars |
| b. | service bars | d. | water bars |

ANS: D PTS: 1

 146. Animals that eat the flesh of other animals are called

|  |  |  |  |
| --- | --- | --- | --- |
| a. | arborivores | c. | herbivores |
| b. | carnivores | d. | no correct answer is given |

ANS: B PTS: 1

 147. The point on a tree 4.5 feet from the ground, on the up-slope side, where diameter is measured is known as the

|  |  |  |  |
| --- | --- | --- | --- |
| a. | DBH | c. | SAF |
| b. | MBF | d. | SCS |

ANS: A PTS: 1

 148. How many square miles are in one section?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 0.5 square mile | c. | 2 square miles |
| b. | 1 square mile | d. | 3 square miles |

ANS: B PTS: 1

 149. The inner bark of the tree that carries food made in he leaves down to the branches, trunks and roots is the:

|  |  |  |  |
| --- | --- | --- | --- |
| a. | cambium | c. | phloem |
| b. | heartwood | d. | xylem |

ANS: C PTS: 1

 150. A snake’s body temperature is regulated by factors such as the air temperature or exposure to sunlight. Because of this, we refer to snakes as:

|  |  |  |  |
| --- | --- | --- | --- |
| a. | calm blooded | c. | control blooded |
| b. | cold blooded | d. | warm blooded |

ANS: B PTS: 1