



2024 NATIONAL FFA FORESTRY CAREER DEVELOPMENT EVENT

GENERAL KNOWLEDGE EXAM

1. How many acres are in a typical section of land?
 - a. 80 acres
 - b. 160 acres
 - c. 640 acres
 - d. 1000 acres

2. _____ involves a three stage removal of crop trees over a period of years.
 - a. Shelterwood
 - b. Seed Spreading
 - c. Diversified Logging
 - d. Stage Removal

3. The land adjacent to the bank of a stream, river, or other waterway is called:
 - a. Riparian zone
 - b. Wetland
 - c. Floodplain
 - d. Estuary
 - e. Watershed

4. A specialized branch of forestry that manages trees for the physiological, sociological, and economic well-being of urban societies is called:
 - a. Urban forestry
 - b. Municipal arboriculture
 - c. City forestry
 - d. Metropolitan tree management
 - e. Community forestry

5. The active layer of cells responsible for diameter growth of a tree's trunk is called:
 - a. Cambium
 - b. Meristem
 - c. Sapwood
 - d. Heartwood
 - e. Epidermis
6. A laminated wood product made of several sheets of veneer that are joined together by adhesives is known as _____.
 - a. Particle Board
 - b. Plywood
 - c. Fiber Board
 - d. Cross Laminated Beam
7. A person who specializes in the branch of biology that deals with insects is referred to as an _____.
 - a. Pestologist
 - b. Entomologist
 - c. Insectologist
 - d. Zoologist
8. Which of the following is not a tool used to measure the merchantable height of a tree?
 - a. Clinometer
 - b. Wedge prism
 - c. Spiegel Relascope
 - d. Hypsometer
9. This fungus is considered to be the single most damaging disease to merchantable hardwood timber as it causes decay at the center of the stem and branches, causing the tree to weaken.
 - a. Sudden oak death
 - b. Bacterial leaf scorch
 - c. Heart rot
 - d. Fusiform rust
10. Wooden cutting boards and countertops made of high-density species are valued for their ability to take punishment from sharp knives. This is a description of which property of wood?

- a. Hardness
 - b. Workability
 - c. Strength
 - d. Resistance to decay
11. An area of undisturbed vegetative cover is known as a what?
- a. Filter Strip
 - b. Clearcut
 - c. Fire Management Zone
 - d. Old Growth Forest
12. The item used to protect your legs when running a chainsaw is called what?
- a. Chain Protector
 - b. Chaps
 - c. Bar Guard
 - d. Bar Nut
13. Which type of logging operation will you typically find on slopes over 40%?
- a. Cable Logging
 - b. Ground Based Skidder Logging
 - c. Cut-To-Length
 - d. Bulldozer Winch Logging
14. The area beneath the canopy of a forest filled with smaller trees is called the:
- a. Shrub layer
 - b. Herb layer
 - c. Forest floor
 - d. Understory
15. When forests are damaged due to fire, insects, or diseases, it may be necessary to remove some or all of the affected trees which may have commercial value if trees are harvested in a timely manner. This type of cutting is called:
- a. Salvage cutting
 - b. Restoration cutting
 - c. Rehabilitation cutting
 - d. Emergency cutting
 - e. Recovery cutting

16. A leaf that consists of three or more small leaflets is known as a _____.
a. Compound leaf
b. Simple leaf
c. Needles
d. Bundle leaf
17. The raw material that is used to make numerous amounts of paper products is referred to as _____.
a. Sawtimber
b. Pulpwood
c. Fuelwood
d. Pole Timber
18. This instrument is used to view two different aerial photographs at the same time converting the two images into a single view with three dimensions.
a. Reliscope
b. Planimeter
c. Stereoscope
d. Hypsometer
19. The rectangular survey system established a system of baselines that run east-west, and _____ that run north-south.
a. Sections
b. Principal meridians
c. Townships
d. Metes and bounds
20. _____ is the most abundant element in the atmosphere making up about 80% of the air supply.
a. Hydrogen
b. Oxygen
c. Nitrogen
d. Carbon

21. A crack formed in wood during the drying process is referred to as what?
 - a. Cup
 - b. Split
 - c. Warp
 - d. Check
22. This refers to the actions prescribed by the forester to improve the consumption, structure, condition, health and growth of even or uneven aged stands.
 - a. Healthy Forest Objectivity
 - b. Timber Stand Improvement
 - c. Carbon Sequestration
 - d. Forest Health Logging
23. Prior to be renamed the Forest Service, the Division of Forestry was created by the federal government in the Department of:
 - a. Agriculture
 - b. Commerce
 - c. Interior
 - d. Education
 - e. Energy
24. The larvae of bark beetles and some other insects cause considerable damage to which tree tissues:
 - a. Phloem and xylem
 - b. Cambium and bark
 - c. Heartwood and sapwood
 - d. Leaves and roots
 - e. Pith and cortex
25. Which of the following is not an acceptable method of measuring diameter at breast height?
 - a. Tree caliper
 - b. Logger's tape
 - c. Biltmore stick
 - d. Ruler

26. The process in which trees and other plants capture the energy obtained from sunlight is known as _____.
a. Mitosis
b. Carbon Cycle
c. Photosynthesis
d. Chlorophyll Process
27. A growth that arises from an infection caused by fungi inside the tree is referred to as a _____.
a. Conk
b. Sprout
c. Spore
d. Sucker
28. _____ is the square feet of all trees measured at DBH on an acre.
a. Basal Area
b. Board Feet
c. Cubic Foot
d. Surface Area
29. The _____ is a measurement of the quality of the soil for a particular tree species and is based on the height of the dominant trees at a specific age.
a. Topography
b. Site productivity
c. Site index
d. Stocking
30. Fire-dependent ecosystems contain organisms with special adaptations that enable them to survive fire and/or use the fire to their advantage. An example of a fire-dependent tree is _____.
a. Bald cypress
b. Longleaf pine
c. Virginia pine
d. Red cedar

31. This is a systematic survey to gather information necessary for forest management planning.
- Log Scale
 - Quality Inspection
 - Timber Stand Improvement
 - Timber Cruise
32. _____ refers to the human perception of natural beauty.
- Aesthetics
 - Nature Watching
 - Beautification
 - Viewshed
33. Which of the following is an application of remote sensing in forestry?
- Measuring tree height and canopy density
 - Counting the number of tree roots in a forest
 - Determining the exact age of each tree
 - Monitoring the health of forest animals
 - Analyzing soil composition
34. A type of cruising where all timber within a line of specific width, usually 1 chain, is measured is called:
- Fixed plot cruise
 - Variable plot cruise
 - Line cruise
 - Strip cruise
 - Line-plot cruise
35. When using the coppice method or spout method of regenerating trees, it is important to cut all trees in a stand at the same time because:
- Trees are believed to release hormones into the soil that inhibit sprouting
 - It ensures uniform light conditions for new sprouts.
 - It maximizes the economic value of the timber.
 - It prevents soil erosion more effectively.
 - It promotes wildlife habitat diversity.

36. Silviculture is the _____ and science of tree production.
- Chemistry
 - Art
 - Research
 - Management
37. An acre is a land area equal to _____ square feet.
- 43,560
 - 640
 - 100
 - 66
38. A population of trees consisting of a single variety species is called _____.
- Monoculture
 - Single Tree Selection
 - One-age Stand
 - Natural Regeneration
39. Which of the trees below display a compound leaf with an opposite arrangement.
- American beech
 - Red maple
 - Shagbark hickory
 - White ash
40. A _____ is a formula or table that gives the volume of a log in merchantable log products, based on its diameter and length.
- Form class
 - Log rule
 - Stand density
 - Point sampling
41. Which of the following trees is used primarily for structural lumber?
- Red Maple
 - White Oak
 - Douglas Fir
 - Ponderosa Pine

42. Which of the following is NOT a unit in which landowners are compensated when selling logs to a mill?
- a. MBF
 - b. Ton
 - c. Piece Count
 - d. Load
43. A conifer will increase in height as the _____ grows.
- a. Terminal bud
 - b. Lateral bud
 - c. Root tip
 - d. Cambium layer
 - e. Axillary bud
44. The United States Congress passed the Endangered Species Act in 1969, establishing two classes in which species at risk can be placed:
- a. Endangered and threatened species.
 - b. Vulnerable and extinct species.
 - c. Critical and non-critical species.
 - d. Protected and unprotected species.
 - e. Rare and common species.
45. Which of the following is not a key element for a forest fire to occur?
- a. Heat
 - b. Oxygen
 - c. Fuel
 - d. High Humidity
46. A hand compass needle points to _____.
- a. True North
 - b. Magnetic North
 - c. North Pole
 - d. Magnetic South

47. The length of a surveyor's chain (unit of measurement) is how many feet in length?
- a. 100 feet
 - b. 1000 feet
 - c. 66 feet
 - d. 640 feet
48. _____crown classification is given to larger trees with crowns forming the upper level of the canopy and receiving sunlight from above and partly from the side.
- a. Dominant
 - b. Codominant
 - c. Intermediate
 - d. Overtopped
49. The _____ only attacks pine trees and is often the first to attack a pine forest weakened by drought. They are usually found higher up on the tree's trunk and their presence is not noticeable until long after the tree has been damaged.
- a. Ips engraver beetle
 - b. Southern pine beetle
 - c. Emerald ash borer
 - d. Black turpentine beetle
50. _____ is a ground fuel that is made up of decaying plant material located on or just beneath the surface of the forest floor.
- a. Peat
 - b. Duff
 - c. Surface fuels
 - d. Biomass



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General Knowledge Exam Key

Instructions: At this time the identification of standards is optional.

Question	Answer	Point Value	Standard	Standard	Standard
1.	C	2			
2.	A	2			
3.	A	2			
4.	A	2			
5.	A	2			
6.	B	2			
7.	B	2			
8.	B	2			
9.	C	2			
10.	A	2			
11.	A	2			
12.	B	2			
13.	A	2			
14.	D	2			
15.	A	2			
16.	A	2			
17.	B	2			
18.	C	2			
19.	B	2			
20.	C	2			
21.	D	2			
22.	B	2			

23.	C	2			
24.	A	2			
25.	D	2			
26.	C	2			
27.	A	2			
28.	A	2			
29.	C	2			
30.	B	2			
31.	D	2			
32.	A	2			
33.	A	2			
34.	D	2			
35.	A	2			
36.	B	2			
37.	A	2			
38.	A	2			
39.	D	2			
40.	B	2			
41.	C	2			
42.	C	2			
43.	A	2			
44.	A	2			
45.	D	2			
46.	B	2			
47.	C	2			
48.	A	2			
49.	A	2			
50.	B	2			