

School

Score

FORESTRY EXAM 2003

- 1 Identify the following trees by their common name (no key)
 - a) _____
 - b) _____
 - c) _____
 - d) _____
- 2 What is the height of the marked tree using a clinometer ?
 - a) 63 ft.
 - b) 59 ft
 - c) 73 ft.
 - d) 69 ft
- 3 What is DBH? _____
- 4 What is the DBH of the marked pine tree?
 - a) 14"
 - b) 15"
 - c) 16"
 - d) 17"
- 5 If the tree from question 2 is 49 years old, what would be the best estimate of site index?
 - a) 70
 - b) 65
 - c) 50
 - d) 60
- 6 If a nail is put in a jack pine tree at 4 feet above the ground and jack pines average 2 feet of height growth per year, how much higher up will the nail be in 18 years?
 - a) 4 feet
 - b) 36 feet
 - c) 18 feet
 - d) 0 feet
- 7 Which of the following tree species are best managed through the practice of clearcutting?
 - a) Walnut
 - b) Aspen
 - c) Yellow birch
 - d) Hemlock
- 8 Which of the following are NOT contributing factors to White Pine Blister Rust:
 - a) Humidity
 - b) The presence of *Ribes* (currant or gooseberry)
 - c) The relative abundance of scale insects in the 'crawler' stage

- 9 Which of the following conifers is considered to be Deciduous:
- a) Tamarack
 - b) Jack pine
 - c) Red pine
 - d) Hemlock
 - e) White pine
- 10 Considering the mathematics behind variable radius plot sampling with a prism or angle gauge, at what distance from the tree will a 10 inch tree (DBH) most likely be seen as a 'borderline' tree?
- a) 27.5 feet
 - b) 10 feet
 - c) 12 feet
 - d) 33 feet
- 11 Which of the following would NOT likely be considered an effective technique for minimizing the deleterious impacts of GYPSY MOTH on a large high quality stand of Northern Hardwoods:
- a) Spraying the stand with *Bacillus thuringiensis*
 - b) Schedule regular thinnings to harvest weak or defective trees
 - c) Promote species diversity when marking and scheduling regular thinnings
 - d) Clearcut the area and plant red pine.

Use the tree cross section and your knowledge of tree anatomy to answer the next 4 questions.

- 12 What tree part is identified by letter 'A':
- a) Phloem
 - b) Cambium
 - c) Heartwood
 - d) Sapwood
- 13 What tree part is identified by letter 'B':
- a) Phloem
 - b) Cambium
 - c) Heartwood
 - d) Sapwood
- 14 What tree part is identified by letter 'C':
- a) Phloem
 - b) Cambium
 - c) Heartwood
 - d) Sapwood
- 15 What tree part is identified by letter 'D':
- a) Phloem
 - b) Cambium
 - c) Heartwood
 - d) Sapwood
- 16 Which of the following species are BEST adapted to wet, poorly drained sites: (Pick one)
- a) Black ash
 - b) White ash
 - c) Red cedar
 - d) Hackberry

- 17 The process of 'Habitat Typing' is used to evaluate forest site quality and potential climax communities. Habitat Types are based on:
- Presettlement vegetation maps
 - Tree vigor measured in growth rings per inch
 - Seed production from dominant and codominant trees
 - Ground vegetation
- 18 How many square feet are in one acre?
- 100,000
 - 43,560
 - 10,000
 - 4,356
- 19 What are the dimensions of a traditional cord of wood?
- 4' x 8' x 8'
 - 1' x 1' x 12'
 - 8' x 8' x 8'
 - 4' x 4' x 8'
- 20 Which of the following practices is NOT a generally accepted regeneration harvest method:
- High grading
 - Seedtree
 - Shelterwood
 - Clearcutting
- 21 Which of the following trees produce a seed known as a Samara:
- Oaks and hickories
 - Red pines and white pines
 - Maples and ashes
 - Black locusts and honey locusts
- 22 Foresters often use a measurement called a chain to measure distances and areas. How many feet are in a chain, and how many square chains are in an acre:
- 100; 5
 - 66; 10
 - 54; 9
 - 80; 8
- 23 TRUE or FALSE: Pioneer tree species such as aspen are considered to be shade tolerant.
- 24 Basal area is best defined as:
- A tree's stump diameter following harvest
 - The sum of cross sectional areas at BH per acre
 - The percentage of wooded acres on a 40-acre parcel
 - The percentage of ground shaded by living tree canopies
- 25 E. M. Griffith is best known as:
- The founder of modern forestry
 - Wisconsin's first Chief State Forester
 - Founder of the seedling nursery at Wisconsin Rapids
 - Inventor of the prism angle gauge

Tie-Breaker questions:

What species is the tree used for questions 12-15?

Other than a chainsaw, what likely killed this tree? Please be specific