

Forestry Junior Exam 2022

Select the best answer from the available choices. Use a pencil to fill-in the correct answer choice bubble for the corresponding question number in the General Knowledge Exam section of the Scantron answer sheet. Give this exam booklet to the room monitor when finished.

1. What does a Wood Physicist do?

- A) many jobs, like building and repairing trails
- B) study materials and help make buildings stronger**
- C) identify wood species
- D) care for trees in the communities

2. What is the difference between an Urban Forester and a Forester?

- A) A Forester plants trees and keeps them healthy while an Urban Forester cares for trees in our communities**
- B) A Forester cares for trees in our communities while an Urban Forester plants trees and keeps them healthy
- C) There isn't a difference
- D) A Forester identifies wood species while an Urban Forester samples water from a stream to make sure it is safe

3. In the story "How Baby Bears Chair was Made" what was baby bears role in helping to make the chair?

- A) Baby bear stood back and watched
- B) Baby bear helped mama bear cut down the tree
- C) Baby bear helped papa bear put the parts of the chair together**
- D) Baby bear helped mama bear weave the bark to make a seat

4. In the story "How Baby Bears Chair was Made" the wood that the bear family used to construct the chair was from an oak tree

- A) True**
- B) False

5. Pick the correct definition of habitat structure?

- A) Characteristics of the natural environment such as sunlight, temperature, moisture, and wind
- B) Physical characteristics of the natural environment, such as how many trees there are, how tall they are, and what species they are**
- C) The shrubs, young trees, and plants near the forest floor
- D) Animal or plant species that live in areas that have just had a large disturbance that removed much of the canopy, such as an extreme weather event like a windstorm or a clear-cut timber harvest

6. What is the goal of most forest management?

- A) **To create diverse structural conditions across a forest so that there is habitat for all types of species, from those that use early successional habitat to those that like mature forest habitat**
- B) To make sure the animals are happy and healthy
- C) To provide medical help to the species in need
- D) None of the above

7. What job title is being described? A(n) _____ Samples water from a stream to make sure that it is safe.

- A) Volunteer
- B) Naturalist
- C) **Ecologist**
- D) Logger

8. What word matches this definition? The amount of sky obscured by the leaves and branches of the top layer of trees in the forest, measured as a percent.

- A) Clear cut
- B) Early successional
- C) Ground cover
- D) **Canopy cover**

9. What characteristic(s) describe a mature forest?

- A) Covered by a deep layer of leaves
- B) Dark
- C) Cool in temperature
- D) **All of the above**

10. Why is it important to practice timber harvesting and forest management?

- A) It can help conserve biodiversity, promote important ecosystem process and maintain ecosystem resilience
- B) It can help promote regeneration of shade intolerant trees by removing the canopy and increasing sunlight levels
- C) **Both A and B**
- D) It can help with animal nutrition by removing all of the bad things that they could have been eating

11. In what ways does a shrub differ from a tree?

- A) A shrub has several or many stems
- B) A shrub is usually less than 20 ft tall
- C) Shrubs tend to form in a clump shape and do not have a well-defined crown
- D) **All of the above**

KEY KEY KEY KEY

12. The crown of a tree includes twigs, buds, leaves, flowers, and fruits

- A) **True**
- B) False

13. The trunk of a tree is considered which of the following?

- A) Internode
- B) **Bole**
- C) Crown
- D) Root

14. Which of the following is false about cambium cells?

- A) Cambium cells live between wood and bark cells and are visible only with a magnifying glass
- B) Cambium growth widens tree trunks, limbs, and roots
- C) Cambium cells divide forming wood cells toward the center of the tree and bark cells toward the outside
- D) **Cambium cells carry food made in the leaves to the twigs, branches, trunk, and roots**

15. Cones, beans, and nuts are not considered tree fruits

- A) True
- B) **False**

16. What term is being described: a short piece of a strong branch or stem of the past season's growth

- A) Clippings
- B) Cambium
- C) **Cuttings**
- D) Cones

17. Which of the following is not an artificial reproductive method?

- A) **Pruning**
- B) Budding and Grafting
- C) Cuttings
- D) All of the above are artificial reproductive methods

18. A naturalist helps park visitors with many things like identifying birds

- A) **True**
- B) False

19. What was the main point of the Hardwood Ecosystem Experiment?

- A) To cut down trees
- B) **To study different ways to manage forests**
- C) To take care of wildlife
- D) To build rivers

KEY KEY KEY KEY

20. The characteristics of the natural environment such as sunlight, temperature, moisture and wind are considered to be habitat conditions

- A) True
- B) False