Forestry Sample Test Questions

1. North Carolina is known as the “Cradle of Forestry” due to the work of which prominent men?  
   Answer: __________
   Points Awarded: _____/5 pts.

2. Name this plant and the type of symbiotic relationship it has with trees.  
   Points Awarded: _____/4 pts.

   A. Common Name ____________________________________________________________

   B. Symbiotic Relationship ___________________________________________________

6. Wildfires are mainly influenced by which three major factors:
   A. Calendar month, Leaf litter, Population
   B. Weather, Topography, Vegetation
   C. Humidity, Wind speed, Rainfall
   D. Wildland-urban interface, Ladder fuels, Invasive species
7. Label the parts of the tree and identify the purpose of each

Tree Part Functions

1. Carries nutrients and water from the roots to the crown of the tree
2. Provides support and strengthens the tree
3. A layer of living tissue that forms new cells
4. Protects the tree from pests, diseases, etc.
5. Moves glucose from the leaves to the rest of the tree and roots

8. List three reasons for using prescribed fire as a forest management tool.

A. 
B. 
C. 

Forestry Sample Test Questions – October 2019
9. Identify these forest insect pests by their common name (preserved/mounted specimens preferred)  
   
   6pts/______

   A. 
   ![Image](https://bugguide.net USERS/C/N/CN188571A.H198851A.jpg)  
   Photo#898687  
   Bugguide.net  
   Common Name ________________________________

   B. 
   ![Image](https://bugguide.net USERS/C/N/CN188571B.H198851B.jpg)  
   Steven Katovich, USDA Forest Service, Bugwood.org  
   Common Name ________________________________

   C. 
   ![Image](https://bugguide.net USERS/C/N/CN188571C.H198851C.jpg)  
   Leah Bauer, USDA Forest Service Northern Research Station, Bugwood.org  
   Common Name ________________________________

   Points Awarded: ______/6 pts.

10. Label each picture with the correct silviculture practice  
    (image source: https://www.nrs.fs.fed.us/fmg/nfmg/fm101/silv/index.htm) 
    5pts/_______
11. Label the below diagram with the correct crown classification.  

8 pts./______

Use the following abbreviations: D=Dominant, C=Co-dominant, I=Intermediate, S=Suppressed
A. Describe the difference between the co-dominant and intermediate crown class.  

__________________________________________________________________________________________

__________________________________________________________________________________________

__________________________________________________________________________________________

**On site determination, field study:**

12. Which of the following are shade intolerant tree species?  

A. Fraser Fir, Black Gum, American Beech 
B. Eastern Red Cedar, Loblolly Pine, Yellow Poplar 
C. Pignut Hickory, Sugar Maple, Eastern Hemlock 
D. Eastern Redbud, Post Oak, Winged Elm

13. Identify these common invasive herbaceous forest species.  

A. ________________________________

B. ________________________________
14. Use the following word bank to identify the forestry tool, then describe what it is used for in the field.

6 pts / ______

<table>
<thead>
<tr>
<th>Abney Level</th>
<th>Chainsaw</th>
<th>Flagging</th>
<th>Staff Compass</th>
</tr>
</thead>
<tbody>
<tr>
<td>Altimeter</td>
<td>Clinometer</td>
<td>Handheld Compass</td>
<td>Stereoscope</td>
</tr>
<tr>
<td>Biltmore Stick</td>
<td>Densitometer</td>
<td>Increment Borer</td>
<td>Tally Meter</td>
</tr>
<tr>
<td>BMP Manual</td>
<td>Dot Grid</td>
<td>Loggers Tape</td>
<td>Tree Marking Gun</td>
</tr>
<tr>
<td>Calipers</td>
<td>Driptorch</td>
<td>Soil Auger</td>
<td>Wedge Prism</td>
</tr>
</tbody>
</table>

A. Identify this forestry tool. ____________________________________________
   What is it used for? ____________________________________________

B. Identify this forestry tool. ____________________________________________
   What is it used for? ____________________________________________

C. Identify this forestry tool. ____________________________________________
   What is it used for? ____________________________________________

15. Take a look at the provided cross section of a tree. What are three things this cross-section can tell you?

3 pts. / ______

A. ____________________________________________

B. ____________________________________________

C. ____________________________________________

Points Awarded: _____/13 pts.

16. If you are using a 10 factor wedge prism and measure 16 “in” trees, what is the basal area?

_______________ ft² Basal Area/Acre

2 pts. / ______

Is this stand over or understocked? Circle correct answer.

OVERSTOCKED UNDERSTOCKED
18. Identify the following trees with the scientific name (Genus and species).

   Please print your answer clearly.  

   6 pts / _____

   A. ____________________________________________

   B. ____________________________________________

   C. ____________________________________________

19. Identify the following wood samples by common name using the provided word bank.

   6pts./_____

<table>
<thead>
<tr>
<th>Sample</th>
<th>Common Tree Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td></td>
</tr>
<tr>
<td>B</td>
<td></td>
</tr>
</tbody>
</table>

*Possible Common Tree Names Word Bank*

- Black Walnut
- Yellow Poplar
- Ash
- Red Maple
- Beech
- Red Oak
- White Oak
- Hickory
- Red Cedar

20. Match the following terms related to forest succession with their correct definition number.

   10pts / _____

<table>
<thead>
<tr>
<th>Term</th>
<th>Definition Number</th>
<th>Definitions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Snag</td>
<td></td>
<td>1. A land area where two different successional stages come together. Often good wildlife habitat.</td>
</tr>
<tr>
<td>Succession</td>
<td></td>
<td>2. A standing dead tree.</td>
</tr>
</tbody>
</table>
3. The natural sequence of plant community replacement that begins with bare ground and results in a final, stable community.

4. The relatively stable association under existing conditions of soil and climate that represents the final stage of succession. Usually contain a large variety of different species and complex interactions.

5. An organism capable of growing on bare sites (such as a newly exposed soil or rock surfaces) and persisting there until supplanted by successor species.

Points Awarded: _____/ 16 pts.

21. A consulting forester determined the site index in two areas of Mrs. Jones’ property using a base age 50 diagram. Plot 1 has a site index of 70. Plot 2 has a site index of 100.

7 pts /_____

A. Which crown classification is used to determine site index?_____________________

B. What is one measurement the consulting forester had to know or measure to determine site index? _______________________

C. What is the difference between plot 1 and plot 2 on Mrs. Jones’ property?

__________________________________________________________________________

__________________________________________________________________________

__________________________________________________________________________