

## Silviculture: Pre-Test

Name\_\_\_\_\_

Date\_\_\_\_\_

Matching: Match the forestry vocabulary words to their definitions

- |                            |  |
|----------------------------|--|
| 1) _____ Deciduous         | a) A system or community of plants, animals and other organisms and their environment, which interacts and functions as a unit                               |
| 2) _____ Selection Logging | b) Something that can replenish or restock itself when used  |
| 3) _____ Seed Tree         | c) A term that applies to trees, commonly broadleaf, that usually shed their leaves annually. Also known commercially as hardwoods                           |
| 4) _____ Renewable         | d) A continuous, uneven aged forest is maintained by selecting trees of various ages and sizes for harvest. Harvesting occurs over intervals of 15-40 years. |
| 5) _____ Ecosystem         | e) Trees that can withstand some fires going through the area and remain healthy   |
| 6) _____ Fire Resistant    | f) The natural or artificial restock itself when used  |
| 7) _____ Clearcutting      | g) Something that can be broken down into a simpler form and then reformed into a useable product  |
| 8) _____ Recyclable        | h) A silvicultural system in which the old crop is cleared at one time   |
| 9) _____ Sustainable       | i) Selected trees are left standing, in a cutblock, to provide natural regeneration  |
| 10) _____ Reforestation    | j) To be able to keep going  |

## Meet a Tree and Anatomy of a Tree

Fill in the blanks: Provide the missing word(s) 1 mark per question

1. A stem on a tree is called a \_\_\_\_\_
2. Herbaceous Plants are different from trees because they do not have \_\_\_\_\_, but instead have a softer outside layer.
3. The roots of trees have two functions: They anchor the tree to the ground and they take up \_\_\_\_\_ and \_\_\_\_\_ from the soil to feed the tree.
4. The tree's outer bark is made of \_\_\_\_\_ cells.
5. Chlorophyll is the \_\_\_\_\_ colour in leaves that aids in the process of photosynthesis.
6. The sapwood consists of a series of straw like tubes that transport sap from \_\_\_\_\_ to all of the living cells in a tree.
7. \_\_\_\_\_ are the world's largest plants.
8. Name a tasty treat that comes from trees \_\_\_\_\_
9. Dying sapwood turns into this center layer of the tree over time \_\_\_\_\_

**10 Marks**

## Silvicultural Systems and Meet a Tree

In the space below draw a picture of a selective logging silvicultural system

Provide detailed and organized notes to explain everything in your picture

Image	Detailed Notes (Keep these organized)
	<hr/>
	<hr/>
	<hr/>
	<hr/>
	<hr/>
	<hr/>
	<hr/>
	<hr/>
	<hr/>
	<hr/>
	<hr/>

**5 Marks**

Draw a clearly labeled tree illustration that shows the 5 layers of the tree:  
Sapwood, Cambium Cell Layer, Outer Bark, Heartwood and Inner Bark

**5 Marks**

## Short Answer Questions: Resources

How can fire be used to help forests?

---

---

---

---

---

3 Marks

List 4 different renewable resources. Give an example of each resource and describe how humans use it.

---

---

---

---

---

---

4 Marks

Describe the process of photosynthesis

---

---

---

---

---

3 Marks

## Silvicultural Systems and Meet a Tree

True and False: Write T or F in the space provided

- 1) \_\_\_\_\_ Shelterwood silvicultural systems leave many trees of various ages and heights to repopulate the forest
- 2) \_\_\_\_\_ Clearcut silvicultural systems are necessary for some species of pine that need direct sunlight to grow successfully
- 3) \_\_\_\_\_ Selection Logging is used frequently because it allows for easy removal of trees from the forest
- 4) \_\_\_\_\_ Selection Silvicultural Systems leave natural habitats for birds and other woodland life
- 5) \_\_\_\_\_ Clearcut Silviculture Systems leave behind only the largest mature trees
- 6) \_\_\_\_\_ Water and nutrients are carried through the trunk of the tree
- 7) \_\_\_\_\_ Herbaceous plants are short plants with soft stems
- 8) \_\_\_\_\_ The stem or trunk of the tree anchors it to the ground
- 9) \_\_\_\_\_ Heartwood protects the tree from fire, pests and diseases
- 10) \_\_\_\_\_ If you carve your initials in a tree at 2M they will grow up the tree over time getting higher and higher from the ground