

**OREGON ENVIROTHON 2022
FORESTRY TEST**

TEAM# _____

TEST TOTAL _____/50 points

PART 1 Tree Identification and Forest Products (10 points)

- 1a.** Using the samples on the table, **write in the correct species of tree or shrub using both common and scientific name.** (Spelling and Capitalization **MUST** be correct!) 6 points, (.5 points each)

	Common Name (.5 point each)	Scientific Name (.5 point each)
i.)		
ii.)		
iii.)		
iv.)		
v.)		
vi.)		

- 1b.** **List 2 examples of forest products produced in Oregon.** (2 points)

1. _____
2. _____

_____/8

**PART 1 Tree Identification and Forest Products
(10 points) continued**

1c. List 2 of the three major forest certification systems used in Oregon. (2 points)

1. _____

2. _____

**PART 2 Forest Practices and Forest Ecology
(10 points)**

Answer the following questions related to the Oregon Forest Practices Act and Forest Ecology.
(10 points)

2a. The Forest Practices Act lists three classes of wetlands. List the 3 classes. (3 points, 1 point each)

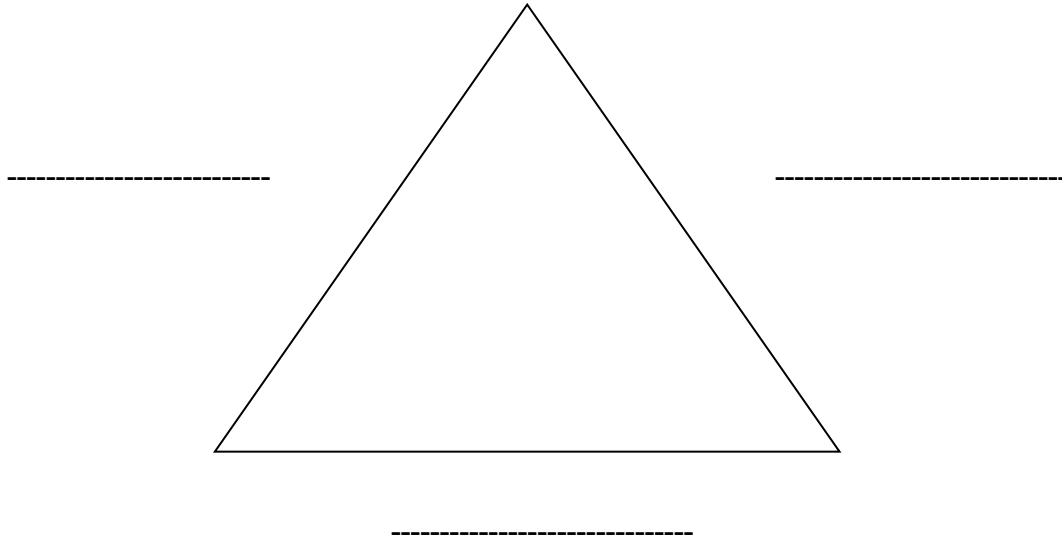
2b. Reforestation is a key element in maintaining future forests in Oregon. After a clear cut harvest on “HIGH” site class forestland, how many seedlings per acre need to be replanted? (1 point)

2c. Define “SSBT” as used in the Oregon Forest Practices Act. (1 point)

_____ /7

PART 2 The Forest Practices Act and Forest Ecology (10 points) cont.

2d. Complete the forest sustainability triangle (label each side). (3 points)



Sustainable Forestry Triangle

2e. Identify the plant pictured below. The bulb portion of the plant was an important food for Native Americans who lived in Oregon. (2 points).



_____/5

PART 3 Tree Measurements (12 points)

Directions: There are four trees marked with the letters A, B, C, D. By using the tools and information specified below, answer the following questions.

3a. Using the **Woodland Stick**, what is the Diameter (DBH) of **Tree A**?

_____ (inches) (3 points)

3b. Using a **Diameter or Loggers Tape**, what is the Diameter (DBH) of **Tree B**?

_____ (inches) (3points)

3c. Using the **Woodland Stick**, what is the total height of **Tree C** given you are **100 feet** from the base of the tree?

_____ (feet) (3 points)

3d. Using a **Clinometer**, what is the total height of **Tree D** given you are **100 feet** away from the base of the tree?

_____ (feet) (3 points)

_____/12

PART 4 Forest Succession and Growth (12 points)

4a. Using the tree “cookie” sample provided, answer the following questions.
(5 points)

1. How old was this tree? _____ (2 points)

2. From the tree cookie sample, were there any indicators that this tree was stressed?
Explain briefly your answer (1 point)

3. **Describe** a forest management activity and/or silvicultural technique that could have improved the health of this tree. (1 point)

4. Looking at the first 10 years of growth, **describe** what the forest surrounding this tree looked like at 10 years of age. (1 point)

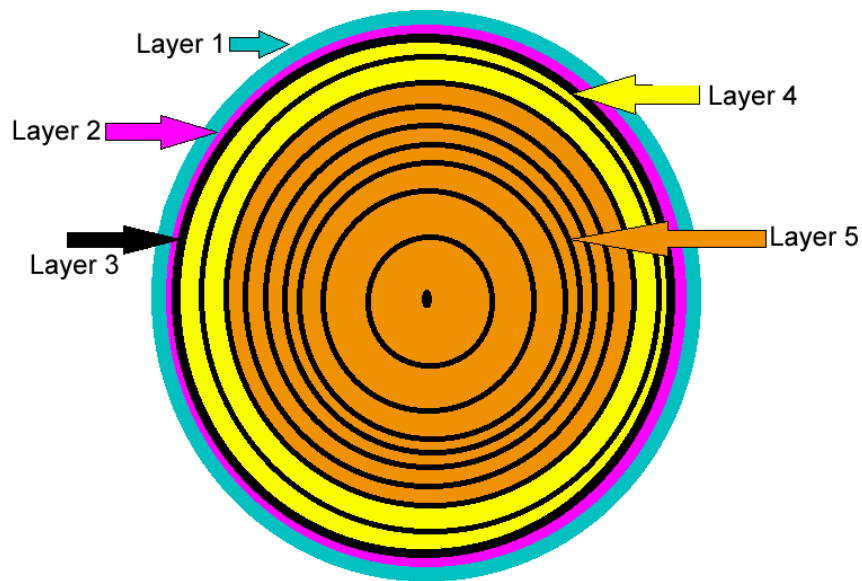
_____/5

PART 4 Forest Succession and Growth (10 points) continued

- 4c.** Identify the points on the tree cross section (below). Write in the correct name of the part and its function. (5 points, .5 point for each answer)

	Name:	Function:
Layer 1-a)	_____	_____
Layer 2-b)	_____	_____
Layer 3-c)	_____	_____
Layer 4-d)	_____	_____
Layer 5-e)	_____	_____

Cross-section of a Tree



_____/5

PART 5 Waste to Resources (8 points)

Using wood and wood waste

- 5a. A simple and cost-effective wood waste management strategy for small-scale forest management operations is to leave wood waste such as downed limbs on the landscape. **This strategy can have several benefits, list two ?** (2 points)
- 5b. Sources of energy are converted to common units of heat. **What do we call these units?** (2 points)
- 5c. In 2020, consumption of renewable energy in the United States grew for the fifth year in a row, reaching a record high. **List 4 types of renewable energy.** (4 points)