

## Sample Test Questions

### Forestry:

1. Water availability and \_\_\_\_\_ of the growing season are the two main factors affecting tree ring width:
  - A. Pollution
  - B. Warmth (X)
  - C. Stress
  - D. None of the above
  
2. \_\_\_\_\_ establishes new growth in an open space created by natural or artificial disturbance. (**Regeneration**)

### **Hands-On Portion Sample Question**

3. Identify the trees marked with flagging corresponding to the tree number assigned.

Tree#	Common Name	Tree#	Scientific Name
1	_____	6	_____
2	_____	7	_____
3	_____	8	_____
4	_____	9	_____
5	_____	10	_____

### Soils:

1. Soil profile development and horizon characteristics are mainly determined by which 5 soil forming factors? (**5 points**)

**Parent material (source material), time, slope (topography/relief), climate, biota (organisms)**

2. Match each type of soil structure to the appropriate description. Write the number of the description in the blank next to the structure type. (**5 points**)

___ <b>2</b> ___ granular	1. vertical axis of aggregates longer than horizontal
___ <b>4</b> ___ platy	2. roughly spherical
___ <b>5</b> ___ blocky	3. prisms with rounded tops
___ <b>3</b> ___ columnar	4. laminated
___ <b>1</b> ___ prismatic	5. roughly cube-shaped

### **Aquatics:**

1. What is the ratio of atmospheric moisture provided by oceans compared to plant transpiration? (2 point)
  - a. 70:30
  - b. 60:40
  - c. **90:10**
  - d. 50:50
  
2. Name the 3 “ology’s” that make up the physical template of watershed ecology: (6 points)
  1. Climatology
  
  2. Geology
  
  3. Hydrology
  
3. States must establish TMDL levels under what law? (2 point)
  - a. **Clean Water Act**
  - b. Coastal Zone Management Act
  - c. National Environmental Policy Act
  - d. Safe Drinking Water Act

### **Wildlife:**

1. Match each mammal type to the correct description of teeth composition: (4pts)  
  C   Carnivore                        A   Herbivore                        B   Omnivore
  - A. Have well developed flat premolars & molars, often with sharp ridges on top. Generally do not have canine teeth.
  - B. Have a variety of all kinds of teeth.
  - C. Tend to have long canines and sharp molars toward the back of the mouth.
  
2. Using the photos provided on the table, identify these 6 species of Nongame Birds: (1pt. each)
  - A. Carolina Wren \_\_\_\_\_
  - B. Northern Mockingbird \_\_\_\_\_
  - C. Song Sparrow \_\_\_\_\_
  - D. Screech Owl \_\_\_\_\_
  - E. Tufted Titmouse \_\_\_\_\_
  - F. Barred Owl \_\_\_\_\_

