**Ecological Communities** (p. 141 – 148)

**I. Producers & Consumers**

 **1. Energy can be created and destroyed.**

 Circle One : True False

 **2. Match the members of energy cycling with the correct definitions.**

 1. \_\_\_\_\_ Autotrophs A. Consumers that eat plants

 2. \_\_\_\_\_ Carnivores B. Capture energy from the Sun or chemical bonds

 3. \_\_\_\_\_ Decomposers C. Organisms that feed on waste, dead bodies, & leaf litter

 4. \_\_\_\_\_ Detritovores D. Consumers that eat other animals

 5. \_\_\_\_\_ Herbivores E. Capture energy from other organisms

 6. \_\_\_\_\_ Heterotrophs F. Organisms such as fungi & bacteria; Break down matter

 7. \_\_\_\_\_ Omnivores G. Consumers that eat both plants and animals

 **3. Give examples of primary, secondary, & tertiary consumers.**

 Primary Consumer : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 Secondary Consumer : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 Tertiary Consumer : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 **4. Define each term and write out each equation.**

 Photosynthesis –

 *Equation* :

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 Chemosynthesis –

 *Equation* :

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 Cellular Respiration –

 *Equation* :

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**II. Energy & Biomass**

 **1. Define the term trophic level.**

 Trophic Level –

 **2. What percentage of energy is lost when transferred between trophic levels?**

 **a. 1% b. 9% c. 10% d. 90%**

 **3. Fewer organisms are found in higher trophic levels.**

 Circle One : True False

 **4. Label the energy pyramid.**

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**III. Food Webs & Keystone Species**

 **1. Differentiate between a food chain and a food web.**

 Food Chain –

 Food Web –

 **2. Explain how the sea otter is an example of a keystone species.**