Ecology Test Study Guide Answers

A proficient student can summarize how energy derived from the sun is used by plants to produce sugars (photosynthesis) and is transferred within food chains and food webs (terrestrial and aquatic) from producers to consumers to decomposers.

1. **What is a food chain? Explain how it is written.**
   A food chain is a diagram showing a series of events where one organism eats another and gets energy. The first organism in a food chain is always a producer. You follow the arrows to the first level consumer which is the organism that eats and gets energy from the producer. You follow the next arrow to the second level consumer which is the organism that eats and gets energy from the first lever consumer. Continue this all the way to the final level in the food chain. The arrow always points toward the organism doing the eating, not toward what's being eaten.

2. **What is a food web? Explain how it is written.**
   A food web is a group of overlapping food chains in an ecosystem. You follow each food chain from the producer to the primary consumer to the secondary consumer to the tertiary consumer until you get to the final level in each food chain.

3. **What is a producer? How does it get its energy? Name some.**
   Producer – organism that can make its own food
   A producer gets its energy from the Sun. Some producers are: plants, algae, and some bacteria

4. **What is the difference between a primary consumer, a secondary consumer and a tertiary consumer? How do they get their energy?**
   Primary consumer – an organism that gets its energy by feeding on producers
   Secondary consumer – an organism that gets its energy by feeding on primary consumers
   Tertiary consumer – an organism that gets its energy by feeding on secondary consumers

5. **What is a decomposer? Name some.**
   Decomposer – organism that breaks down wastes and dead organisms, and return the raw materials to the ecosystem.
   Some decomposers include fungi, worms, and bacteria.

6. **What is an herbivore?**
   Herbivore – an organism that only eats plants

7. **What is a carnivore?**
   Carnivore – an organism that only eats meats

8. **What is an omnivore?**
   Omnivore – an organism that eats both plants and animals

9. **What is a scavenger?**
   Scavenger-a carnivore that feeds on the bodies of dead organisms. Examples include: catfish and vultures

10. **What does an energy pyramid show? Explain how it is written.**
    An energy pyramid is a diagram that shows how much energy moves from one feeding level to another in a food web. The producers are at the bottom of the pyramid, followed by the primary consumers then the secondary consumers then the tertiary consumers at the top.

11. **Where is the greatest amount of energy available in an energy pyramid? How much energy usually transfers from level to level?**
    The producers, at the bottom of the energy pyramid, contain the most energy. The next level up usually can only get about 10% of the energy of the level below.

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