

NAME: _____

SNC 1PI
Ecology Practice Exam

1. Place the following in a food chain:

grasshoppers, grass, sun, snapping turtles, frogs

Sun → grass → grasshopper → frog → turtle

(a) What type of ecosystem would they be found in?

aquatic

(b) State 3 biotic factors in this ecosystem

lilly pads
animals
flowers

(c) State 3 abiotic factors in this ecosystem

water temp.
air temp.
rocks

(d) Put the above food chain into a fully labelled pyramid of energy



(e) What does the 10% rule mean in regards to the pyramid of energy?

only 10% of energy is
passed on to the next level

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2. State the 3 types of symbiosis and give an example for each.

Mutualism - both benefit
Commensalism - one benefit, other not affected
Parasitism - one benefit, one harmed

3. State 5 factors that would affect the biodiversity of an ecosystem.

climate change invasive species
loss of habitat pollution
overexploitation

4. Put the following in order from smallest amount of biodiversity to largest amount.

Biosphere Ecosystem Population Species Community Biome

species population ecosystem community biome
biosphere

5. What effect does removing one animal from an area of high biodiversity have versus removing one animal from an area of low biodiversity?

removing one animal from an area of high biodiversity will not have as great a negative effect as removing one animal from an area of low biodiversity

6. What is another name for a herbivore? primary consumer

7. The process of making glucose and oxygen from carbon dioxide and water is called:

photosynthesis

8. A non-native species that causes harm to the ecosystem into which it has been introduced is called: invasive species

9. Draw a diagram showing evaporation, condensation, and precipitation.

