

BIOLOGY 20 PRACTICE QUESTIONS

Name: _____

SECTION A: Multiple Choice

/50

- 1) The following list shows examples of abiotic components of an ecosystem:
 - a) Sunlight, water, rocks, trees
 - b) Birds, insects, mammals, amphibians
 - c) Sunlight, water, rocks, air
 - d) Air, water, fire, bacteria
- 2) Which of the statements **best** describes a food chain?
 - a) A food chain is a model that shows how numerous producers, consumers, and decomposers are related in an ecosystem
 - b) A food chain is a model that shows the linear pathways through which food energy is transferred from producers to consumers in an ecosystem
 - c) A food chain is a theory of energy transfer in the biosphere
 - d) A food chain is a model that shows what animals and their eating habits
- 3) Autotrophs can be defined as organisms that
 - a) Feed on organisms to meet their energy needs
 - b) Break down organic matter into simpler compounds
 - c) Can synthesize their own food through photosynthesis or chemosynthesis
 - d) Organisms that eat their own body to obtain energy
- 4) Biodiversity can be explained as
 - a) The number of different species found in an ecosystem
 - b) The different traits found within a species
 - c) The number of organisms of the same species within a population
 - d) The number of organisms of different extinct species within a population
- 5) Photosynthesis can best be explained by the following simplified equation
 - a) $\text{CO}_2 + \text{H}_2\text{O} + \text{O}_2 \rightarrow \text{energy} + \text{C}_6\text{H}_{12}\text{O}_6$
 - b) $\text{CO}_2 + \text{H}_2\text{O} + \text{energy} \rightarrow \text{C}_6\text{H}_{12}\text{O}_6 + \text{O}_2$
 - c) $\text{C}_6\text{H}_{12}\text{O}_6 + \text{O}_2 \rightarrow \text{CO}_2 + \text{H}_2\text{O}$
 - d) $\text{CO}_2 + \text{energy} \rightarrow \text{C}_6\text{H}_{12}\text{O}_6 + \text{O}_2$
- 6) At various stages in the decay process, bacteria can break down nitrates to nitrites, and then nitrites to (1) _____. This process, called (2) _____ releases nitrogen gas back into the atmosphere.
 - a) (1) nitrate, (2) decomposition
 - b) (1) nitrogen gas, (2) denitrification
 - c) (1) nitrogen gas, (2) nitrification
 - d) (1) ammonia, (2) denitrification

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