

# 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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