

Name: _____ Grade: _____ Date: _____

UNIT TEST

BIODIVERSITY & ECOSYSTEMS

MULTIPLE CHOICE SECTION

INSTRUCTIONS: Choose the letter that best answers the following questions.

1. Which environmental factor is biotic?
 - a. Light intensity
 - b. PH
 - c. Predation
 - d. Temperature

2. Which is a natural threat to an ecosystem?
 - a. Deforestation
 - b. Disease
 - c. Genetic engineering
 - d. Overfishing

3. In a jungle, a lion stalks and kills another animal for food. What term describes the lion?
 - a. Carnivore
 - b. Decomposer
 - c. Herbivore
 - d. Omnivore

4. Which organism begins a food chain?
 - a. Carnivore
 - b. Omnivore
 - c. Sun
 - d. Producer

5. Which term describes waste that cannot be broken down by decomposers?
 - a. Biodegradable
 - b. Non-biodegradable
 - c. Non-renewable
 - d. Renewable

SHORT ANSWER SECTION

6. **INSTRUCTIONS:** Answer ALL parts of the questions below.

a. Define the term, Ecology. (2)

b. Describe difference between a community and population. (2)

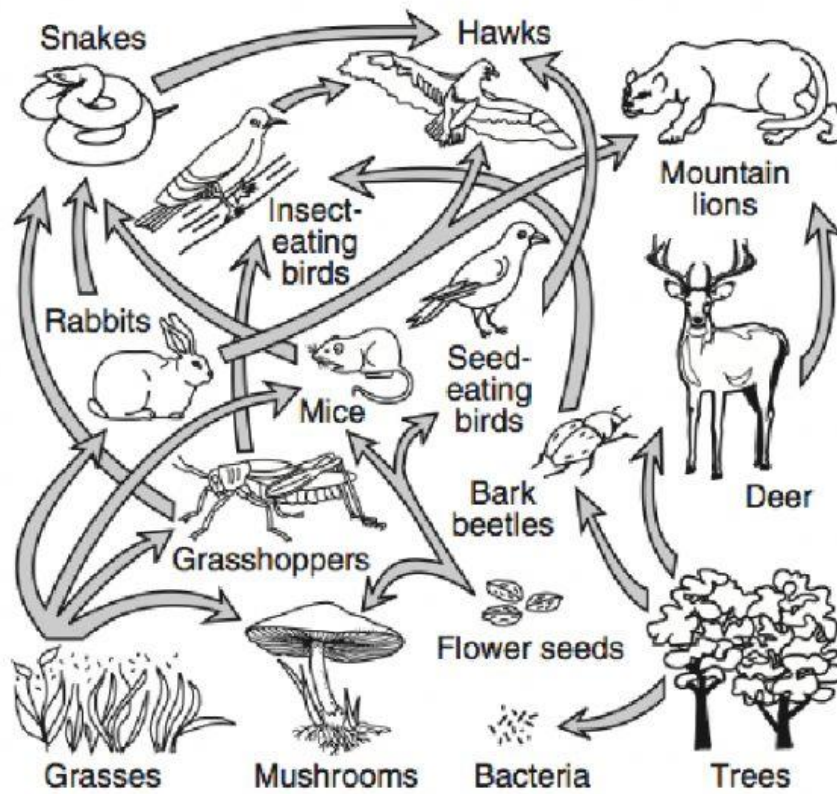
c. Which ecosystems makes up the **MOST** and the **LEAST** of the Earth's surface? Provide the percentages of the Earth each occupies. (4)

d. What is a Biome? (1)

e. Why is the job of an ecologist important? (1)

7. INSTRUCTIONS: Answer ALL parts of the questions below.

The diagram below represents a food web. Use the diagram to answer the following questions.



- a. Name TWO apex predators (2)

- b. Provide a name of an organism that best describes the statements: (3)

- I. Decomposer _____
II. Herbivore _____
III. Third trophic level _____

- c. Write down one visible food chain that includes at least THREE organisms. (3)

- d. Name the producer and primary consumer of the chain created above (c). (2)

Producer _____

Primary consumer _____

- e. In the space provided below, draw an energy pyramid using the food chain created in question (c). Ensure that your energy pyramid includes the number that shows correct percentage (KJ/energy) at each trophic level. Your producer's energy must be 61,859 KJ. (5)

ESSAY QUESTION

INSTRUCTIONS: Answer the essay question below. Ensure that you read carefully and answer ALL parts of the question.

“Biodiversity is an important aspect of a country’s ecosystem. The protection and maintenance of our environment plays a major role in all aspects of The Bahamian life.” Describe the impact Biodiversity has on the social, biological resources and ecosystem services. Ensure that you thoroughly explain all aspect and provide TWO examples. (10)

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TOTAL: _____ 40