

Unit 1 Study Guide 2018
DO NOT WRITE ON THIS!

Answer on a separate piece of paper and in complete sentences.

1. Describe each of these steps:
 - a. Evaporation:
 - b. Condensation:
 - c. Precipitation:
 - d. Transpiration:

2. Draw and Label
 - a. Carbon cycle
 - b. Nitrogen cycle

3. Draw a picture of the earth and label the following. Provide a short definition of each:
 - a. Picture:
 - b. Atmosphere:
 - c. Geosphere:
 - d. Hydrosphere:
 - e. Biosphere:

4. What is the definition of ecology?

5. What defines a species?

6.
 - a. What direction do the arrows in a food web point?
 - b. What do they represent?

7.
 - a. Draw and label the trophic energy pyramid.
 - b. How does energy flow through each step?

8. Describe and provide an example for each of the following:
 - a. Herbivore:
 - b. Omnivore:
 - c. Carnivore:

9. Define and give an example of:
 - a. Autotroph:
 - b. Heterotroph:

10. How are autotrophs and heterotrophs related to each other?

11. What are the six levels of organization for life? Provide an explanation of each.
 - a.
 - b.
 - c.
 - d.
 - e.
 - f.

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12.
 - a. Describe exponential population growth. What does it look like?
 - b. When does it happen?

13.
 - a. Describe logistical population growth. What does it look like?
 - b. Describe a series of events that would lead to it.

14. Define and provide an example of each of the five types of organism relationships.
 - a.
 - b.
 - c.
 - d.
 - e.

15. What is the difference between habitat and niche?

16. Explain the difference between biotic and abiotic factors. Provide 3 examples of each.
 - a. Abiotic:
 - i.
 - ii.
 - iii.
 - b. Biotic
 - i.
 - ii.
 - iii.

17.
 - a. What is the difference between food chain and food web?
 - b. Which is more accurate of real life?

18. Draw an example of:
 - a. food web
 - b. food chain

19. List at least 5 biomes and describe what they look like and where they exist.
 - a.
 - b.
 - c.
 - d.
 - e.

20. How do matter and energy move through the four major components of the energy?

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