BioRecycling/BioEnergy Knowledge Check

- 1. True/False: Waste is waste and cannot be reused or recycled.
 - a. True
 - b. False
- 2. Which of the following CANNOT be used to produce electricity?
 - a. Sunlight c. Wind
 - b. Natural gas d. Glass
- 3. True/False: Composting and anaerobic digestion are good ways of recycling food waste.
 - a. True
 - b. False

4. For growth, plants and algae need all of the following, EXCEPT ______.

- a. Nutrients
- b. Water
- c. Sunlight
- d. Methane
- 5. Of the following, which photosynthetic organism grows the fastest?
 - a. Algae c. Oak trees
 - d. Humans b. Squirrels
- 6. True/False: Biogas is a renewable energy source.
 - a. True
 - b. False
- 7. What does anaerobic digestion produce?
 - a. Oxygen c. Light
 - d. Helium b. Biogas
- 8. True/False: Microalgae and plants can be turned into biofuel.
 - a. True
 - b. False
- 9. Air is composed of several constituents. Which air component do plants need most?
 - a. Oxygen c. Carbon dioxide
 - b. Nitrogen d. Argon
- 10. Plants help to control the Earth's temperature by removing ______ from the atmosphere.
 - a. Oxygen c. Carbon dioxide
 - d. Helium b. Nitrogen

11. Anaerobic means without _____

- a. Oxygen c. Methane d. Carbon dioxide b. Nitrogen
- 12. Which of the following is not a decomposer?
 - a. Fungic. Earth wormsb. Bacteriad. Plants
- 13. True/False: Composting requires oxygen and bacteria to break down the food waste.
 - a. True
 - b. False
- 14. If you provide enough oxygen, water and food to a compost pile, what happens?
 - a. The compost pile heats up
 - b. The compost pile smells
 - c. The compost pile becomes cooler in the center
 - d. Biogas is produced

15. Compost can be used for _____

b. To steal it

- c. Producing paper a. Construction material
- b. Growing plants d. Filling empty space in landfills

16. Sequestering carbon dioxide means to _____

- a. Convert it to heat c. Dissolve it in water
 - d. Lock it up, or store it in organic materials
- 17. What device do engineers use to grow algae?

 - a. Anaerobic digester c. Nuclear reactor b. Photobioreactor d. Business incubator

18. What device do engineers use to produce biogas?]

- a. Anaerobic digester c. Nuclear reactor
- b. Photobioreactor d. Business incubator

19. Biogas is a combination of ______ and ______. a. Oxygen and methane c. Methane and carb

- c. Methane and carbon dioxide
- b. Oxygen and carbon dioxide d. Carbon dioxide and nitrogen

20. A bioreactor is

- a. a group of radioactive organisms
- b. a device that does some type of work using microorganisms
- c. the place where most superheroes come from
- d. an Oscar award-winning bacteria