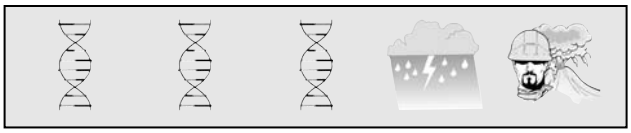
Name: _____

Date: _____ Grade: _____

SECTION QUIZ 3-1



Remember:
Score an average of 85% or higher on all three quizzes, and you may be exempt from the chapter test!



Congratulations! You have completed this section!
Answer the following questions to test your understanding of the material. When you are finished, hand in your quiz to your teacher. Each answer is worth 2.38 points.

Multiple Choice: Choose the correct answer.

1. George Washington Carver was: _____.
   (a) a botanist who discovered uses for peanuts and sweet potatoes
   (b) credited for improving the quality of soil in the south
   (c) both of the above
   (d) neither of the above

2. What crop(s) replenishes nitrogen in soil that has been depleted by cotton? _____
   (a) a different kind of cotton
   (b) sugar cane and rice
   (c) beans of all kinds
   (d) peanuts and sweet potatoes

3. _____ replenish(es) nutrients in soil.
   (a) Vegetables (b) Cotton (c) Nitrogen (d) Resources

4. Fossil fuels and soil are: _____.
   (a) deplete of nitrogen
   (b) natural resources
   (c) man-made
   (d) solar sources

5. Which of the following is an accurate summary of the process of photosynthesis? _____
   _____
   (a) Sugar water flows through the stem and leaves, combining with sunlight and carbon dioxide from the air, producing food and releasing oxygen into the air.
   (b) Water and carbon dioxide combine with chlorophyll and sunlight, causing a chemical change that produces food and releases oxygen into the air.
   (c) Energy from the Sun is absorbed through the leaves. The energy combines with carbon dioxide and chlorophyll, producing water that feeds the plant, creates food and releases oxygen into the air.
   (d) Water and sunlight combine to form sugar which reacts chemically with leaves, produces food and releases oxygen into the air.

6. Which does the root system of a plant **NOT** do? _____.
   (a) anchors the plant into the ground
   (b) protects the plant from sunlight
   (c) allows water and materials to enter the plant
   (d) stores food for the plant

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SECTION QUIZ 3-1

7. _____ is required for all plants to survive.
   (a) Sunlight (b) Leaves (c) Water (d) Hail

8. The leaves of a plant: _____.
   (a) trap sunlight and make food
   (b) carry water, minerals and food throughout the plant
   (c) store water
   (d) are swollen and fleshy

9. _____ is composed of living, once-living and nonliving things.
   (a) Sunlight (b) Soil (c) Grass (d) Hail

10. _____ occurs when wind or water blow or wash away soil.
    (a) Erosion (c) Ecosystem depreciation
    (b) Gravity (d) Decomposition

11. _____ is the rotten remains of animals and plants that helps keep soil soft and loose.
    (a) Erosion (b) Compost (c) A decomposer (d) A nitrate

12. What is the function of decomposers? _____
    _____
    (a) to loosen the soil; when they die, their bodies provide nutrients
    (b) to break down dead plants and animals into nutrients
    (c) to form nitrates that enable plants to produce proteins
    (d) to keep plants deeply rooted in the ground

13. _____ are designed to recycle back into the environment.
    (a) Water, carbon, nitrogen and oxygen
    (b) Bacteria, fungi, mushrooms and mold
    (c) Xylem, phloem, chlorophyll and nitrates
    (d) Erosion, gravity, compost and soil

14. In which two parts of the nitrogen cycle are nitrates formed? _____
    _____
    (a) in the decomposed remains of plants and animals
    (b) in the air when lightning passes by
    (c) in the roots of plants that contain certain bacteria that extract N_2 from the soil
    (d) in raindrops
    (e) only a and b
    (f) only a and c
    (g) only b and c
    (h) only c and d

15. Which of the following would be the LEAST efficient in control of erosion?
    _____
    (a) vegetation (b) terraces (c) retaining walls (d) buildings

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SECTION QUIZ 3-1

16. Which answer best summarizes the nitrogen cycle? _____
_____

(a) Nitrogen passes from the air to dead animals and plants, then into the soil.
(b) Plants create nitrogen then pass it into the air.
(c) Nitrates are created in dead plants, are released into the ground, then are eaten by animals.
(d) Nitrogen passes from the air to living things, then back into the air.

17. When an animal or plant decomposes, which of the following happens to the nitrates?
_____

(a) They are released into the soil; some are absorbed by the soil, some are used by plants.
(b) They are all absorbed by the soil.
(c) They are all used by plants.
(d) They are released into the air; some dissolve in the air, some are eaten by animals.

18. Nitrogen gas (N_2) is formed by: _____
_____.

(a) nitrogen released into the air from decaying animals and plants
(b) lightning forming with rainwater
(c) nitrates combining with rainwater
(d) animals eating plants that contain organic proteins

19. Which of the following best describes the process of respiration? _____
_____

(a) Animals absorb oxygen and release carbon dioxide into the air.
(b) Nitrogen is released into the air when lightning strikes the ground.
(c) Bacteria and fungi break down the remains of dead plants and animals.
(d) Combustion of fossil fuels releases oxygen into the air.

20. Limiting factors include: _____.

(a) flowers, shade, organisms, energy and nutrients
(b) evaporation, transpiration, precipitation and absorption
(c) temperature, wind, chemicals, light, water and pollution
(d) environment, pollution, living things, saltwater

Matching:

21. _____ precipitation	(a) the process when water becomes a gas and leaves lakes, rivers or oceans
22. _____ evaporation	(b) the process when water gathers in the clouds and changes from gas to droplets
23. _____ transpiration	(c) the process when water falls from the sky in liquid or solid forms
24. _____ condensation	(d) the process when water becomes a gas and leaves plants and trees

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SECTION QUIZ 3-1

Matching:

25. _____ chloroplast (a) the process by which plants make food
26. _____ chlorophyll (b) food factory that contains chlorophyll
27. _____ photosynthesis (c) greenish matter that absorbs sunlight and helps make food

Fill in the blank by using the WORD BANK below.

WORD BANK

carbon	rock	carbon dioxide	plants	oxygen
erosion	rain drops	carbohydrates	proteins	limiting
nitrogen	condensation	precipitation	nitrates	environmental

28. _____ are substances that are composed of nitrogen and oxygen.
29. Plants use nitrates to make _____ that help the plants grow.
30. Nitrates in the air combine with _____ that fall to the ground and are used by plants.
31. Plants absorb _____ from the air to use during photosynthesis.
32. Sugars and starches are carbon compounds known as _____ that are produced during photosynthesis.
33. The processes of respiration, photosynthesis, ingestion of plant foods and combustion of fossil fuels are all parts of the _____ cycle.
34. Hail, sleet and snow are solid forms of _____.
35. Water, gravity, glaciers and wind are agents of _____.
36. Erosion occurs easily when _____ are not present to hold the soil in place.
37. A(n) _____factor is anything that (negatively) influences the growth or survival of an organism or species.

Complete the Life Principles.

38. *"Waste not, _____ not."*
39. *"_____ is the spice of life."*
40. *"What you do today will affect _____."*
41. *"Do not let present _____ limit future hopes and dreams."*
42. *"Do not let _____ erode your noble plans."*

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