

Chapter 7-9 Test

Name:

1. The hydrosphere is
 - a. The atmosphere layer
 - b. The water on earth, in the ground and in the atmosphere
 - c. The water just on the surface of earth
 - d. The oxygen on earth
2. Where is the majority of Earth's water stored?
 - a. Lakes
 - b. Ocean
 - c. Glaciers
 - d. Underground
3. How does groundwater return to the ocean
 - a. Lakes
 - b. Ocean
 - c. Run off
 - d. Underground
4. The majority of Earth's freshwater is found
 - a. lakes
 - b. ponds
 - c. Glaciers
 - d. Soil
5. An example of chemical weathering would be
 - a. Trails formed from animals
 - b. Rocks cracking from water freezing
 - c. A pebble smoothed from ocean waves
 - d. Rust of metal pipes
6. What causes acid rain
 - a. Evaporation of water vapor mixed with pollution
 - b. Clouds made of acid
 - c. Airplanes polluting the clouds
 - d. Acid evaporates from citrus fruits
7. Our oxygen is cycled from
 - a. Nitrogen cycle waste product
 - b. Breathing out
 - c. Animal waste product
 - d. Plant photosynthesis waste product
8. The biosphere includes
 - a. Surface of Earth
 - b. The lower atmosphere
 - c. The upper crust
 - d. All of the above

9. Bacteria are important in which cycle
 - a. Oxygen cycle
 - b. Energy cycle
 - c. Carbon dioxide cycle
 - d. Nitrogen cycle
10. These two things are cycled in the Energy Cycle
 - a. Heat and light
 - b. Light and atoms
 - c. Atoms and molecules
 - d. Heat and radiation
11. Animals get energy from the sun
 - a. from photosynthesizing
 - b. from keeping warm
 - c. from eating plants
 - d. from drinking water
12. Ecologists study
 - a. The economy
 - b. The world
 - c. The ecosystems
 - d. The earth
13. **T or F** Ecosystems are all the same size.
14. Oceans absorb and radiate energy from
 - a. The land
 - b. The sun
 - c. The atmosphere
 - d. The wind
15. What is the global conveyor belt
 - a. The wind that crosses the equator
 - b. Where the earth spins faster
 - c. Ocean currents that travel around the world
 - d. All of the above
16. What affects the ground water
 - a. The porosity of the soil and rocks
 - b. The permeability of the soil and rocks
 - c. Where it comes from
 - d. Choice A and B
17. How is nitrogen released back in the atmosphere
 - a. Animal and manure decomposition
 - b. From the stomata in plants
 - c. From fossil fuels being burned
 - d. When we breathe out

18. Ocean waves carry large amounts of sand away and can change the look of a shore line. This is an example of
- Crevices
 - Corrosion
 - Weathering
 - Heat
19. The epipelagic zone is known for being
- The sunlight zone
 - Where bioluminescent creatures are found
 - Where sperm whales dive to find food
 - The deepest zone before the trenches
20. What is freeze-thaw
- When it gets so cold nothing will thaw
 - When the water on the surface of earth freezes
 - When water freezes in a rock and causes it to crack
 - When the land gets eroded because of glaciers moving
21. What two things drive the Global Conveyor Belt?

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22. A compass will point to
- The geographic north pole
 - The geographic south pole
 - The magnetic north pole
 - The magnetic south pole
23. What is magnetism
- When two things have a north or south pole
 - What you put on your refrigerator
 - The force that causes objects to attract or repel
 - The earth surrounded by hot gases from the sun
24. Solar storms are
- Beams of radiation
 - Outputs of gas from the sun that cause auroras on earth
 - Northern lights that occur at the poles of the earth
 - Storms that are caused by the sun
25. What is a geomagnetic reversal?
- The geographic poles and magnetic poles switch places
 - The geomagnetic poles flip quickly and cause damage
 - The geomagnetic poles switch over time and don't cause issues
 - When the geomagnetic poles move throughout the year
26. What happens with a geomagnetic reversal?
- The earth gets hit with radiation
 - The geomagnetic field is flattened by radiation on one end

- c. The magnetosphere is hit with radiation causing one side to flatten
 - d. The bow of the earth is affected by the radiation coming from the sun
27. Why is it important not to pollute water?

28. Explain the Water Cycle starting with water in the ocean. (key words: evaporation, condensation, clouds, dust, precipitation, run off)

29. How is an ecosystem different from a biome?

30. What is the biosphere?
