- 1. When we refer to a biome in an environment which of the following best describes the meaning?
 - a. A group of ecosystems within a region that have similar types of vegetation and climatic conditions.
 - b. A system of interrelated organisms and their physical and chemical environment.
 - c. An ecosystem where evaporation rates are low, precipitation is minimal and swamp like conditions exist.
 - d. The change in plant species that live in an area as a damaged ecosystem returns to its original state of ecological development.
- 2. What can decaying plant and animal tissues form if they are buried and compressed over a long period of time?
 - a. Fossil fuels
 - b. Geothermal energy
 - c. Carcinogens
 - d. Volatile Organic Compounds
- 3. Particulate matter is a major concern when we deal with...
 - a. Air pollution
 - b. Soil contamination
 - c. Water pollution
 - d. All of the above
- 4. A type of pollution that cannot be traced to a single source or point of origin is called....
 - a. Noxious pollution
 - b. Point source pollution
 - c. Non-point source pollution
 - d. Radiant pollution
- 5. What is the natural process of plants releasing water into the atmosphere called?
 - a. Condensation
 - b. Evaporation
 - c. Respiration
 - d. Transpiration
- 6. The process that changes water from a gas to a liquid is called .
 - a. Condensation
 - b. Evaporation
 - c. Respiration
 - d. Transpiration
- 7. What is the ability of an organism to survive more easily in a shared environment than another called?
 - a. Adaptive superiority
 - b. Competitive advantage
 - c. Competitive exclusion
 - d. Secondary succession
- 8. ______ occurs when an ecosystem is damaged or partly destroyed and remnants of the former community still exist.
 - a. Competitive advantage
 - b. Competitive exclusion
 - c. Primary succession
 - d. Secondary succession

- a. Carbon b. Hydrogen c. Nitrogen d. Water 10. The water of a lake and the chemicals that dissolve from the atmosphere and land affecting the water's acidity level are all examples of a/an_____. a. Abiotic system b. Biotic system c. Biological synthesis d. Transformer systems 11. The number of a particular species of plant or animal in a given area at a specific point in time is an example of a. Biologistics b. Carrying capacity c. Multiple use d. Population level 12. If you are to measure the number of hydrogen ions a sample of water contains, what are you measuring? a. Purity b. pH c. Salinity d. Temperature 13. What are you measuring when you measure a water sample for salinity? a. The number of hydrogen ions the sample contains b. The solubility of oxygen in the sample c. The total concentration of all dissolved ions in the sample d. The acidity of the sample 14. Decay of organic matter is caused by a. Amphibians b. Insects c. Microbes d. Water 15. Tendency of soil particles or aggregates to break apart as erosion occurs is called... a. Decomposition b. Erodibility c. Illuviation d. Weathering 16. Anaerobic digestion of animal waste produces what gases?
 - b. Ethane, nitrogen monoxide and sulfur trioxide c. Methane, carbon dioxide and hydrogen sulfide

a. Butane, carbon monoxide and sulfur monoxide

9. What is the most abundant element found in living organisms?

- d. Propane, nitrogen dioxide and sulfur dioxide
- 17. What type of farm activity can increase particulate air pollution?
 - a. Dust from fields caused by wind erosion
 - b. Methane production from animal waste piles
 - c. Odor from animal feedlots
 - d. Pesticide aerosol from crop spraying

- 18. The organisms unable to manufacture their own food are called...
 a. Consumers
 b. Decomposers
 c. Producers
- 19. The most important factor determining how many and what types of organisms live in an ecosystem is the available...
 - a. Energy

d. Providers

- b. Soil
- c. Temperature
- d. Water
- 20. Photosynthesis is a process. By which...
 - a. Consumers make their own food
 - b. One plant community is replaced by another over time
 - c. Plants transform the sun's energy into usable energy (food)
 - d. Plants use sunlight to break down food
- 21. The predictable and gradual change from one community with the passage of time is called...
 - a. Community change
 - b. Ecological change
 - c. Ecosystem drift
 - d. Ecological succession
- 22. A material is not considered waste until...
 - a. It is declared toxic
 - b. It is discarded
 - c. It is incinerated
 - d. It is recycled
- 23. Most of the solid waste in the municipal waste stream comes from...
 - a. Aluminum
 - b. Landscape debris
 - c. Paper
 - d. Plastics
- 24. Foods that should generally not be included in a compost heap include....
 - a. Coffee grounds
 - b. Egg shells
 - c. Meats
 - d. Potato peels
- 25. Two results of decomposition in a sanitary landfill are...
 - a. Earthworms and humus
 - b. Methane and leachate
 - c. Oxygen and helium
 - d. Photosynthesis and leachate
- 26. The Biochemical Oxygen Demand Test or BOD test aids in the detection of what form of pollution?
 - a. Organic wastes
 - b. Leachate
 - c. Radioactive materials
 - d. Thermal pollution

27. Which discharged form of water pollution can enter the food chain by adhering to body tissue and	
cannot be cooked out?	
a. Inorganic wastes	
b. Organic wastes	
c. Radioactive materials	
d. Thermal pollution	_ c
28. What primary air pollutant is produced when there is insufficient oxygen for complete combustion fossil fuel?	OI
a. Carbon dioxide	
b. Carbon monoxide	
c. Nitrogen dioxide	
d. Sulfur dioxide	
29. Particulate pollutants may come from the combustion of:	
a. Gasoline	
b. Natural gas	
c. Propane	
d. Wood, coal and diesel	
30. Dissolved Oxygen (DO) is an important water quality measurement. If there is an	
excess amount of decaying plant material in a body of water how will this affect DO levels?	
a. This will raise the levels of DO in the water	
b. This will lower the levels of DO in the water	
c. This will have no effect on the levels of DO in the water	
d. This will block sunlight and limit photosynthesis which will increase DO levels.	
31. Soil texture describes	
a. The aeration of the soil	
b. The arrangement of the soil particles into shapes or pieces	
c. The physical condition of the soil	
d. The proportion of sand, silt and clay in the soil	
32. Which of the following statements is true when referring to soil particles?a. Clay is the largest particle in soil	
b. Clay is the smallest particle in soil	
c. Clay is smaller than sand but larger than silt	
d. Silt is the smallest particle in soil	
33. Which of the following soils has the most water holding capacity?	
a. Soils high in sand content	
b. Soils that have an even amount of sand and silt	
c. Soils that have a high clay content	
d. Soils that have more mineral content	
34. Lines of longitude	
a. Run in an east/west direction.	
b. Are unequal in length.	
c. Are known as meridians.	
d. Are known as parallels.	
35. The amount of dissolved oxygen in warm water is than it is in cold	
water.	
a. Better	
b. Higher	
c. Lower	

d. The same

36	errors are known to occur from signal reflection from various
nearb	by objects.
	a. Ephemeris
	b. Ionosphere
	c. Multipath
	d. Troposphere
37.	What is the over accumulation of pollutants at successive levels in the food chain
called	l?
	a. Bio adaptability
	b. Biomagnification
	c. Eutrophication
	d. Point source pollution
38.	Which soil horizon is composed of mostly parent material?
	a. B horizon
	b. Subsoil
	c. C horizon
	d. Topsoil
39.	What is the process by which the molecules of a chemical adhere to the surface of some other material?
	a. Absorption
	b. Adsorption
	b. Attenuation
	c. Attraction
40.	With which type of soils are wetlands primarily associated?
	a. Hydric
	b. Organic
	c. Loamy
44	d. Sandy
	What is considered a measurement of the ability of an organism to reproduce sufficient numbers of
опѕр	ring in order to maintain a stable population?
	a. Biomass power
	b. Biological synthesisc. Biological succession
	d. Biotic potential
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wet s	An overly wet soil is often low in productivity. Which of the following are true in these
wers	a. Fungi and bacteria are present in too great of number to be beneficial
	b. Little or no air can penetrate the soil
	c. Organic matter decomposes too quickly to be of a benefit to plants
	d. Tend to have less natural mineral deposit
/12	Which of the following items are not considered to be a factor, that influences the
	ty of chemicals?
LUXICI	a. Absorbed dose
	b. Frequency of exposure
	c. Length of exposure
	d. Weather conditions
	v

- 44. Water that is clouded with suspended particles of silt is described as...
 - a. Having a Low pH
 - b. Having a high salinity content
 - c. Stratified
 - d. Turbid
- 45. Ecosystems are...
 - a. Complex relationships among living things and their environment
 - b. Complex relationships among nonliving organisms
 - c. Complex networks of living and nonliving organisms in which each organism may be affected by the others
 - d. Natural resources
- 46. What is the leading cause of eutrophication?
 - a. Accumulation of salts in irrigated lands
 - b. Accumulation of organic material in very wet soils
 - c. Fertilizer runoff
 - d. Use of heavy metals in soils
- 47. The greenhouse effect is...
 - a. A buildup of carbon dioxide and other specific gases in the atmosphere
 - b. A disruption in photosynthesis
 - c. An increase in plant growth
 - d. A theory that has been disproven
- 48. What is an area bound by geographic features in which precipitation is absorbed in the soil to form groundwater, and ultimately drains into a body of water.
 - a. Riparian Zone
 - b. Water table
 - c. Watershed
 - d. Wetland
- 49. What is the area of Earth that supports life called?
 - a. The Atmosphere
 - b. The Biosphere
 - c. The Hydrosphere
 - d. The Rhizosphere
- 50. What is a relationship in which one type of wildlife lives in, on or with another without either harming or helping it?
 - a. Community
 - b. Commensalism
 - c. Parasitism
 - d. Mutualism