# **UNIT TEST: Fresh and Saltwater Systems**

Student Class

1.



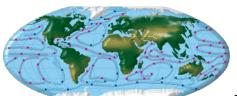
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Use the Record Temperatures table to answer the next question

- 2. Which of the Mystery States is represented by # 4
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- 3. What effect does warm water current have on the climate, in a city such as San Diego, California?
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#### Humans depend on water supply and quality.

- 4. Hard water is water that contains high concentrations of dissolved ...
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- C Hydrogen and oxygen
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- Models are often used to help explain a concept that is important to visualize, helping you understand it. A glass of lemonade models the distribution of all kinds of water on the Earth.

All of the saltwater on the Earth is represent in the model by the ...

- A lemon slice
- B melted water
- C lemonade
- D ice cubes

- 6. Many substances are dissolved in freshwater and saltwater. This is because water is a solvent that is widely used to dissolve substances. '*Water*' is known as the ...
- A universal solvent
- B universal solute
- C common solute
- D common solvent
- 7. Many organisms live in water. They require it for life, just as humans do. Organisms, such as bacteria, can cause very serious problems for humans. One of the most deadly organisms is Escherichia Coli, which can cause extreme sickness and even death. This organism is most often referred to as...
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- 8. Water quality is a vital issue because many of the organisms, which can harm humans, are too small to see with the naked eye. Another organism, which can give humans intestinal problems, is Giardia, which is a microscopic ...
- A virus
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- 9. Two common processes are used to change saltwater into freshwater. When saltwater is forced through a filter, or membrane with holes too small for the salt to fit, the process is called ...
- A dissolving
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### Water in its various states affects Earth's landforms and climate.

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- 13. A change in the water level in the ocean is referred to as **a tide**. Tides occur 4 times each day, every 6 hours, every day. There are two types of tides, **high tide** and **low tide**. The main reason that tides occur on the Earth is because of the ...
- A rotation of the earth and tilt of its axis
- B gravitational force of the moon on the water
- C gravitational force of the Earth on the moon
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- 14. A stream or river profile is a description of its characteristics. Each stream has a pattern of flow that is shaped by its characteristics. Stream characteristics include the ...
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- 15. Hot springs are able to dissolve more minerals than ordinary surface water, because as temperature increases the solubility of substances also increases. Once it reaches the surface, the hot springs cannot hold as much solute in the water, so this happens ...
  - A erosion
- **B** striation
- C dissolving
- D sedimentation
- 16. A river's sediment load is the amount of ...
  - A water-borne materials it can carry
- B erosion it can make as it flows
- C pollution it is able to filter out
- D organisms it is able to sustain
- 17. Geological features on the ocean floor are a result of the continental plates moving. Where the plates are moving toward each other you will find ...
  - A trenches
  - **B** volcanoes
  - C seamounts
  - D mid-ocean ridges
- 18. Glaciers, or icecaps covering large areas of land, forming the coldest regions on the Earth and are known as ...
  - A valley glaciers
  - B moraine glaciers
  - C country glaciers
  - D continental glaciers
- 19. Glaciers gouge huge areas of the land and then reshape the land by the materials they collect. Some of the features include long winding hills of sand and gravel called ...
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  - B drumlins
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  - D reservoirs
- 20. Large bodies of water can affect the climate of a particular area. The main effect that they have is to ...
  - A prevent extreme temperatures
  - B cause more precipitation to fall
  - C cause more extreme temperatures
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### Living things in aquatic environments are affected by many factors.

- 21. An *ecosystem* is any place where living organisms interact with other living organisms and non-living things. This many, of all the major types of organisms, live in saltwater environments for some time in their lives ...
  - A one half
  - B two thirds
- C one quarter
- D three quarters
- 22. The *continental shelf* is a shelf of land that extends out from the edge of a continent below the ocean's surface. The water in this zone of the ocean is ...
  - A Cold and rich in a variety of species
  - B Cold and dark with few species
  - C Warm and light making it rich in nutrients
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- 23. An important zone in the ocean ecosystem is the one that enables many of the species that live there to live part of their lives out of the water. This zone is the called the ...
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- 24. Organisms that live on the shoreline have adapted themselves to their environment by attaching themselves to the rocks. Their hard body shell protects them from the pounding waves that constantly bombarded them. These organisms are ...
  - A clams
  - B starfish
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  - **D** barnacles
- 25. These types of population changes can occur naturally but do not happen every year ...
  - A short-term
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- 26. Using the estimation method, scientists can predict the size of a species population. They can use the *quadrant sampling method*. An example of this method follows.

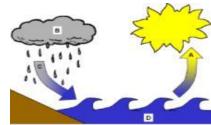
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To find the size of this population you would do the following Find the average of all of the numbers and then ...

- A multiply by the number of rows
- B multiply by the total number of squares
- C divide by the number of squares sampled
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- 27. Lakes with high concentrations of carbonates and bicarbonates have white coatings on the rocks near the shoreline. These minerals have been dissolved out of the soil and have made the lakes ...
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- 28. **Brine** shrimp are microscopic organisms that live in salt lakes and brine ponds. Few other organisms can live in these environments because the environment is so ...
  - A salty
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- 29. Which of the following environments would have the greatest diversity?
  - A pond
  - B puddle
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## The Water Cycle

The **water cycle** is a model of what happens to water on the Earth.

In the model **C** represents ...

- A evaporation
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- D storage
- 31. Most water on the Earth is stored in the ...
  - A oceans
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- 32. The major agricultural use of water is for ...
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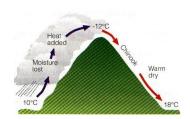
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- D lots of money and endless resources

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**ANSWER KEY** 

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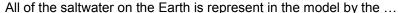


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