

Water and the Fitness of the Environment.

Name _____

Date _____

Biology 12

Place the characteristic of water in the blank that best explains the following statements.

1. Water form rain drops as it flows through the air. _____
2. Two pieces of glass are held together by several drops of water. _____
3. The land adjacent to the ocean has moderate temperatures year round. _____
4. Many types of materials are able to be dissolved in water. _____
5. Fish and other aquatic life are able to survive sub zero temperatures. _____
6. Surface tension _____
7. Water is able to ascend tall trees. _____

Answer the following questions concerning the water molecule.

8. Why does the water molecule exhibit polarization?

9. If two water molecules come in close contact a(n) _____ bond forms between them.
10. If one were to separate the H and O in a water molecule what type of bond would have to be split?
_____.
11. In what state does water exhibit the minimum number of hydrogen bonds? _____.
12. At what point does water exhibit the minimum distance between molecules? _____.
13. Water molecules dissociate into two ions: the _____ and the _____.
14. This separation is the basis for the _____ scale.

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15. On this scale the substance that contributes H^+ are considered _____,
16. The substances that take up and hold on to the H^+ are considered _____.
17. If a solution has a pH of 5, how much more acidic is it than a solution with a pH of 8? _____.
18. A(n) _____ is a special chemical that has the ability to regulate a solutions pH. If the solution is too acidic it will _____ the buffer and _____.
19. All solution contains the _____ and the _____.
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