**INORGANICS PRACTICE QUIZ**

1. **Which of the following best describes the property of water by which water molecules like to link to other water molecules via Hydrogen Bonding?**
2. **Covalent Bonding**
3. **Ionic Bonding**
4. **Adhesion**
5. **Cohesion**
6. **Which of the following is INORGANIC ?**
7. **CH3**
8. **C6H12O6**
9. **CO2**
10. **NH2C2O3**
11. **Water is a universal solvent, which statement below would best describe this property?**
12. **Polar molecules will easily mix with water**
13. **Non-polar molecules will easily mix with water**
14. **Ionic molecules will easily mix with water**
15. **Polar and Ionic molecules will easily mix with water**
16. **Polar and Non-Polar molecules will easily mix with water**
17. **Urine has a pH of 6, while a batch of Vinegar has a pH of 3, what best compares urine to vinegar?**
18. **Urine has 3 X as many H+ ions**
19. **Vinegar has 1000 X as many H+ ions**
20. **Vinegar has 1000 X as many OH – ions**
21. **Urine has 3 X as many OH – ions**
22. **In the diagram below, the arrow is pointing at what?**



1. **A polar covalent bond**
2. **A hydrogen bond**
3. **A S.H.C. bond**
4. **An ionic bond**
5. **If your blood pH is supposed to be at a pH of 7.4, but it has dropped to 7.1, what best describes the situation and what will happen within your body to fix this imbalance?**
6. **You are experiencing "Alkalosis" and your breathing rate and heart rate will slow down to fix this situation while your kidneys reabsorb more HCO3- ions from your urine.**
7. **You are experiencing "Acidosis" and your breathing rate and heart rate will speed up to fix this situation while your kidneys reabsorb more HCO3 – ions from your urine.**
8. **You are experiencing "Acidosis" and your breathing rate and heart rate will slow down to fix this situation while your kidneys reabsorb more HCO3 – ions from your urine.**
9. **You are experiencing "Alkalosis" and your breathing rate and heart rate will speed up to fix this situation while your kidneys excrete more HCO3 – ions into your urine.**
10. **What best describes a molecule of water?**
11. **A charged molecule that is polar**
12. **A polar molecule that has no charge (neutral)**
13. **A charged molecule that is non-polar**
14. **A molecule that has no charge (neutral) and is non-polar.**
15. **Chlorine is in Group 7 on the periodic table, what does this mean?**
16. **It has 7 electrons**
17. **It has 7 protons**
18. **It has an atomic mass of 7 units**
19. **It has 7 valence electrons**
20. **Draw the electron configuration of a WATER molecule:**

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**Notice the molecule has 10 protons and 10 electrons, so it is electrically neutral (no overall charge) but one side has a negative field while the other has an equally positive field.**

**IT IS A POLAR MOLECULE**

**INORGANICS PRACTICE QUIZ - KEY**

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