

## QUIZ (15.09.2020; Chapter One and Three)

Name:

Number

**1. Which of the following characteristics are NOT necessary to being any organism being considered alive?**

- A. order      b. metabolism      c. growth      d. reproduction      e. **brain tissue**

**2. What do cohesion, adhesion, and surface tension have in common with reference to water?**

- a. all are produced by covalent bonding      b. all are properties related to hydrogen bonding  
c. all are aspects of a crystalline structure      e. all have to do with ionic interactions  
f. **all are the results of the structure of the hydrogen atom**

**3. Water has many exceptional and useful properties. Which is the rarest property among compounds?**

- A) water is a solvent      B)water has a high heat capacity  
**C)solid water is less dense than liquid water**      D)water has surface tension

**4. What property of water allows for transport of water against gravity in plants?**

- A)kinetic energy      **B)cohesion**      C)surface tension      D)specific heat

**5. A localized group of organisms that belong to the same species is called a \_\_\_\_\_.**

- A) family      B)community      C)ecosystem      **D)population**

**6. Which of the following solution would require the addition of the greatest amount of base to bring the solution to neutral pH?**

- A)gastric juice at pH 2**      B)vinegar at pH 3      C)household bleach at pH 12      D) black coffee at pH 5

**7. A solution with a pH of 5 has how many more protons in it than a solution with a pH of 7?**

- A)5 times      B)1000 times      **C)100 times**      D)10 times

**8. Which of the following types of cells utilize deoxyribonucleic acid (DNA) as their genetic material but do not have their DNA encased within a nuclear envelope?**

- A)plant      B)animal      C)fungi      **D)archaeon**

**9. For an ecosystem to be self-sustaining it requires a constant flow of energy into the system and**

- A)interactions with the environment      B)consumers  
C)feedback regulation      **D)cycling of nutrients**

**10. Cells are \_\_\_\_\_.**

- A)only found in pairs because single cells cannot exist independently  
**B)characteristic of prokaryotic and eukaryotic organisms**  
C)characteristics of eukaryotic but not prokaryotic organisms  
D)limited in size to 200 and 50 micrometers in diameter