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**ACROSS**

- 1 amount of heat that must be absorbed to change from liquid to vapor state
- 4 orbital structure of water
- 6 different amino acids are determined by this
- 7 molecule with carbon and hydrogen
- 8 charge of hydroxyl ion
- 9 solutes that are not water soluble
- 13 fatty acid is an acid because of this functional group
- 15 starch and glycogen have a \_\_\_\_\_ shape
- 16 type of amino acid likely to be found on the surface of a protein

- 18 density of liquid water is \_\_\_\_\_ than ice
- 19 type of fat that is liquid at room temperature
- 22 solutes that are highly soluble in water
- 24 functional group (-OH)
- 25 function of steroid
- 29 hydrophobic molecules are?
- 30 solution that resists changes in pH
- 32 what happens to enzymes at very high temperatures
- 34 weak acid in blood
- 35 state of water with maximum hydrogen bonding
- 36 oxygen carrying protein
- 38 the cause of water ionization

- 39 another word for hydrogen bonding
- 40 fats are saturated with what?

**DOWN**

- 2 function of triglyceride
- 3 when a large macromolecule is broken down \_\_\_\_\_ is released
- 4 amount of heat that must be absorbed to raise temperature of water 1 degree
- 5 why antarctic toothfish can live at temperatures below freezing
- 10 cellulose bundle
- 11 How many molecules are in a mole of betacyanin?
- 12 the interior of a protein will likely be?

- 14 as water freezes the space it occupies \_\_\_\_\_
- 17 functional group (-SH)
- 20 nucleotide has phosphate group, sugar and \_\_\_\_\_
- 21 glucose is water soluble because of this functional group
- 23 starch and glycogen are made of?
- 26 type of protein with helical shape
- 27 charged membrane lipid
- 28 consequence of freezing
- 31 linkage between amino acids in protein
- 33 drug delivery system
- 37 maximum hydrogen bonds per water molecule

