

# CAMPBELL BIOLOGY CHAPTER 3 QUIZ QUESTIONS AND ANSWERS

Evaporative cooling - answer-property of a liquid whereby the surface becomes cooler during evaporation because of a loss of highly kinetic molecules to the gaseous state

Solution - answer-a homogeneous mixture of two or more substances

Solvent - answer-a liquid substance capable of dissolving other substances

Solute - answer-substance that is dissolved in a solvent to make a solution

Aqueous solution - answer-a solution in which water is the solvent

Hydration shell - answer-the sphere of water molecules around each dissolved ion

Hydrophilic - answer-having a strong affinity for water

Colloid - answer-a mixture containing small, undissolved particles that do not settle out

Hydrophobic - answer-lacking affinity for water

Molecular mass - answer-the sum of the masses of all the atoms in a molecule

Mole - answer- $6.02 \times 10^{23}$

Molarity - answer-the number of moles of solute per liter of solution

Hydronium ion - answer- $\text{H}_3\text{O}^+$

Acid - answer-a substance that increases the hydrogen ion concentration of a solution

Base - answer-a substance that reduces the hydrogen ion concentration of a solution

pH - answer-a value that indicates the acidity or alkalinity of a solution on a scale of 0-14, based on the proportion of  $\text{H}^+$  ions.

Buffer - answer-substance that maintains a fairly constant pH in a solution by accepting  $\text{H}^+$  ions when their levels rise and donating  $\text{H}^+$  ions when their levels fall

Ocean acidification - answer-when  $\text{CO}_2$  dissolves in seawater, it reacts with water to form carbonic acid, which lowers ocean pH

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**Michael Rajnik**



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