
Honors Biology Final Exam 2023 Questions With Correct Answers.

to be classified as a living organism, what qualities must you possess? Answer- Metabolize, reproduce, cells, homeostasis, evolve, grow/develop, and stimuli.

What is homeostasis? Answer- The ability to maintain constant or stable conditions

What is the difference between growth and development? Answer- To grow is to get bigger in size. To develop is to change.

Organic compounds contain what elements? Answer- carbon

What is an example of a biochemical reaction? Answer- Hydrolysis and Dehydration synthesis

Which macromolecule is a short-term energy source? Answer- carbohydrates

Which macromolecule is used for long-term energy? Answer- Lipids

Which macromolecule has monomers made of amino acids? Answer- Proteins

Why is the shape important for proteins and enzymes? Answer- The shape determines the protein's function

Can biochemical reactions occur without the help of enzymes? If they can, why is it still important to have enzymes there? Answer- They can but they would happen too slow for our body to function properly, so enzymes speed them up

How do enzymes influence the activation energy? Answer- Enzymes lower the activation energy needed for a chemical reaction

Can enzymes work on different substrates? Answer- Enzymes cannot work on different substrates because the substrate's shape is specific to a certain enzyme's shape so not any enzyme fits in any substrate.

List the things that can alter the activity of an enzyme. Answer- Temperature, pH, salinity

Which macromolecule stores the genetic information? Answer- nucleic acids

Plant cells mostly contain what kind of macromolecule? Answer- carbs

animal cells contain mostly what kind of macromolecule? Answer- proteins

do all cells contain nucleic acids? Answer- no

Honors Biology Final Exam Review Guide Answers

WJ Hussar



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