

Questions:

What is homeostasis?

the condition of maintaining the body's internal environment in a relative constant state (basically keeping the body balanced)

What is the general term for 2 or more atoms bonded together?

- a) Compound
- b) Mixture
- c) Molecule
- d) Ion

Anatomy is the study of:

- a) How body parts function
- b) The structure of body parts and their relationships
- c) Chemical levels only
- d) Organ systems exclusively

The levels of structural organization, in order from smallest to largest, begin with:

- a) Tissue, cell, chemical, organ
- b) Chemical level (atoms, molecules, organelles), then cellular level
- c) Organ system, organ, tissue
- d) Organismal, system, organ

The integumentary system:

- a) Pumps blood through the body
- b) Forms the external body covering, protects deeper tissues, and synthesizes vitamin D
- c) Secretes hormones for growth
- d) Filters blood in the kidneys

Metabolism includes:

- a) Only catabolism (breakdown of molecules)
- b) The sum of all catabolism and anabolism in body cells
- c) Only anabolism (synthesis of molecules)
- d) Physical mixtures without chemical reactions

What is the difference between a single and a double covalent bond?

A single covalent bond involves sharing two electrons, while a double bond involves sharing four electrons.

What is a synthesis reaction?

A synthesis reaction bonds smaller particles to form larger, more complex molecules.

How do catalysts affect chemical reactions?

Catalysts increase the rate of chemical reactions without being chemically changed or becoming part of the product.

What is the main function of the cardiovascular system?

The cardiovascular system transports blood, with the heart pumping and vessels carrying blood.