

- a. Food
- b. Water
- c. Sunlight
- d. ATP - ANSc. Sunlight

___ is the transmission of DNA to offspring.

- a. Reproduction
- b. Development
- c. Homeostasis
- d. Inheritance - ANSa. Reproduction

___ move around for at least part of their life.

- a. Living organisms
- b. Animals
- c. Species
- d. Eukaryotes - ANSb. Animals

A ___ can help keep the pH of a solution stable.

- a. covalent bond
- b. hydrogen bond
- c. buffer
- d. pH - ANSc. buffer

A ___ is an example of protein secondary structure.

- a. barrel
- b. polypeptide
- c. domain
- d. helix - ANSd. helix

A ___ is dissolved in a solvent.

- a. molecule
- b. salt
- c. solute
- d. chemical bond - ANSc. solute

A bacterium is ___ (choose all that apply).

- a. an organism
- b. single-celled
- c. an animal
- d. a eukaryote - ANSa. an organism
- b. single-celled

A butterfly is a(n) ___ (choose all that apply).

- a. organism
- b. domain
- c. species

- a. ions
- b. H^+ - ANSb. H^+

A transport protein requires ATP to pump sodium ions across a membrane. This is a case of ____.

- a. passive transport
- b. active transport
- c. osmosis
- d. facilitated diffusion - ANSb. active transport

A(n) ____ substance repels water.

- a. acidic
- b. basic
- c. hydrophobic
- d. polar - ANSc. hydrophobic

After the citric acid cycle reactions run ____, one six-carbon glucose molecule has been completely broken down to CO_2 .

- a. once
- b. twice
- c. six times
- d. twelve times - ANSb. twice

All antioxidants ____.

- a. prevent other molecules from being oxidized
- b. are coenzymes
- c. balance charge
- d. deoxidize free radicals - ANSa. prevent other molecules from being oxidized

All cells have these three things in common:

- a. cytoplasm, DNA, and organelles with membranes
- b. a plasma membrane, DNA, and a nucleus
- c. cytoplasm, DNA, and a plasma membrane
- d. a cell wall, cytoplasm, and DNA - ANSc. cytoplasm, DNA and a plasma membrane

All ions have at least one ____ (select all that are correct).

- a. proton
- b. neutron
- c. electron
- d. all of the above - ANSa. proton

Atoms share electrons unequally in a(n) ____ bond.

- a. ionic
- b. hydrogen
- c. polar covalent
- d. nonpolar covalent - ANSc. polar covalent