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1. The life function of transport in an organism directly involves those activities used to
 - (1) absorb and distribute materials
 - (2) obtain and hydrolyze materials
 - (3) release energy from food
 - (4) produce cellular waste products
 2. Nutrition involves those activities by which organisms
 - (1) obtain and process materials needed for other activities
 - (2) exchange gases with their environment
 - (3) absorb and circulate materials
 - (4) remove cellular waste products
 3. Which life function is primarily involved in the conversion of the energy stored in organic molecules to a form directly usable by a cell?
 - (1) circulation
 - (2) digestion
 - (3) respiration
 - (4) absorption
 4. Which process includes the other three?
 - (1) synthesis
 - (2) metabolism
 - (3) excretion
 - (4) nutrition
 5. Organisms combine simple molecules to form complex molecules by the process of
 - (1) hydrolysis
 - (2) ingestion
 - (3) synthesis
 - (4) regulation
 6. Which statement best describes an activity that will contribute to the maintenance of homeostasis in an organism?
 - (1) A desert rattlesnake enters an underground burrow on a hot summer day.
 - (2) A shark swims toward a highly polluted region of the ocean.
 - (3) Roots of a willow tree grow away from a moisture-rich region of the soil.
 - (4) A polar bear sheds most of its fur during the coldest months of the winter.
 7. The removal of carbon dioxide and nitrogenous wastes from an organism illustrates the life function known as
 - (1) regulation
 - (2) excretion
 - (3) nutrition
 - (4) respiration
 8. Which life function is most directly involved in the control of the muscles of an earthworm that is moving from dry to moist soil?
 - (1) nutrition
 - (2) regulation
 - (3) transport
 - (4) excretion
 9. Which life activity is *not* required for the survival of an individual organism
 - (1) reproduction
 - (2) synthesis
 - (3) respiration
 - (4) nutrition
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