

Introduction to Biology- EXAM #1

Enter each answer in your clicker and circle it on the paper

Choose the best answer for the following multiple choice questions.

- Organs are composed of tissues, which are composed of cells. This is an example of which characteristic of life?
 - Living things grow and develop.
 - Living things respond to stimuli.
 - Living things maintain themselves by homeostasis.
 - Living things have levels of hierarchical organization.
- The smallest unit that has all of the characteristics of life is the:
 - cell.
 - tissue.
 - organ.
 - organ system.
 - organism.
- A fossil was once a living organism but its tissues have now been replaced by minerals and it no longer exhibits most properties of life, except for:
 - organization
 - homeostasis.
 - growth&reproduction
 - response to stimuli.
- Outside, the non-living world is unorganized and chaotic while inside the cell or organism there is a relatively constant environment; **maintaining this environment** is a process of:
 - behavior.
 - thermodynamics.
 - homeostasis
 - metabolism.
 - adaptation.
- A kernel of corn contains an embryo plant that is capable of becoming a complex plant with roots, stalks, leaves and ears of corn. This potential reflects which property of life?
 - growth & development
 - response to stimuli
 - adaptation
 - homeostasis
 - metabolism
- Which level of biological organization is **composed of tissues**?
 - organism
 - organ system
 - organ
 - cell
 - molecules
- Which sequence correctly lists the different levels of biological organization?
 - cells-organs-tissues-organ systems-organism
 - cells-tissues-organ systems-organs-organism
 - tissues-cells-organs-organ systems-organism
 - tissues-organs-organ systems-organisms-cells
- Which of the following is **NOT** true about DNA?
 - has a double helix
 - bases held together by hydrogen bonds
 - bases are complementary to each other
 - has a deoxyribose sugar
 - contains adenine, guanine, cytosine, and uracil
- All members of **one species** within a particular area form a:
 - biosphere.
 - ecosystem.
 - population.
 - nation.
 - country.
- All **populations** in one natural setting plus their **physical environment** constitutes a(n):
 - biosphere.
 - ecosystem.
 - population.
 - habitat.
 - cohort.
- When researchers test a new human cancer drug using mice, the mice used constitute the:
 - hypothesis.
 - data.
 - experimental design.
 - model.
 - control.
- Which of the following is **not** one of the six basic elements of living organisms?
 - nitrogen
 - oxygen
 - chlorine
 - hydrogen
- The atoms contain:
 - neutrons only
 - electrons only.
 - protons, neutrons, and electrons.
 - protons&neutrons.
- To measure the activity of the human brain, a **RADIOACTIVE** sugar is injected in the carotid artery and is utilized by those cells that are most active. This shows up on a PET scan and demonstrates the detection of:
 - sulfur
 - X-rays
 - covalent bonds
 - neutrons.
 - isotopes.
- Which of the following molecules is **NOT** a compound?
 - water or H₂O
 - salt or NaCl
 - Oxygen or O₂
 - glucose or C₆H₁₂O₆
- You can hold a water droplet between two fingertips held slightly apart. This is an example of what property?
 - cohesion of water molecules from hydrogen bonding.
 - dissociation of the ionic bonding of water.
 - you are very strong
 - vibrational movement of water molecules.
- The water strider is an insect that skates across the water without sinking. The tips of its feet should be coated with molecules that **repel** the water or:
 - ions
 - hydrophilic
 - hydrophobic
 - isotopes
 - acidic.
- Since pure water is neutral, it contains:
 - no hydrogen ions
 - neither hydrogen nor hydroxide ions.
 - equal number of hydrogen and hydroxide ions

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Didier Musso



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