

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?

A. Living things grow and develop. B. Living things respond to stimuli.
 C. Living things maintain themselves by homeostasis. D. Living things have levels of hierarchical organization.
- The smallest unit that has all of the characteristics of life is the:

A. cell. B. tissue. C. organ. D. organ system. E. 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- A fossil was once a living organism but its tissues have now been replaced by minerals and it no longer exhibits most properties of life, except for:

A. organization B. homeostasis. C. growth & reproduction D. 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:

A. behavior. B. thermodynamics. C. homeostasis D. metabolism. E. 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?

A. growth & development B. response to stimuli C. adaptation D. homeostasis E. metabolism
- Which level of biological organization is **composed of tissues**?

A. organism B. organ system C. organ D. cell E. molecules
- Which sequence correctly lists the different levels of biological organization?

A. cells-organs-tissues-organ systems-organism B. cells-tissues-organ systems-organs-organism
 C. tissues-cells-organs-organ systems-organism D. tissues-organs-organ systems-organisms-cells
 E. cells-tissues-organs-organ systems-organisms
- Which of the following is **NOT** true about DNA?

A. has a double helix B. bases held together by hydrogen bonds C. bases are complementary to each other
 D. has a deoxyribose sugar E. contains adenine, guanine, cytosine, and uracil
- All members of **one species** within a particular area form a:

A. biosphere. B. ecosystem. C. population. D. nation. E. country.
- All **populations** in one natural setting plus their **physical environment** constitutes a(n):

A. biosphere. B. ecosystem. C. population. D. habitat. E. cohort.
- When researchers test a new human cancer drug using mice, the mice used constitute the:

A. hypothesis. B. data. C. experimental design. D. model. E. control.
- Which of the following is **not** one of the six basic elements of living organisms?

A. nitrogen B. oxygen C. chlorine D. hydrogen
- The atoms contain:

A. neutrons only B. electrons only. C. protons, neutrons, and electrons. D. 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:

A. sulfur B. X-rays C. covalent bonds D. neutrons. E. isotopes.
- Which of the following molecules is **NOT** a compound?

A. water or H₂O B. salt or NaCl C. Oxygen or O₂ D. glucose or C₆H₁₂O₆
- You can hold a water droplet between two fingertips held slightly apart. This is an example of what property?

A. cohesion of water molecules from hydrogen bonding. B. dissociation of the ionic bonding of water.
 C. you are very strong. D. 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:

A. ions B. hydrophilic C. hydrophobic D. isotopes E. acidic.
- Since pure water is neutral, it contains:

A. no hydrogen ions B. neither hydrogen nor hydroxide ions. C. equal number of hydrogen and hydroxide ions.

Biology Semester Exam Study Guide Answer Key

Jiyuan Zhang



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