

## 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- A fossil was once a living organism but its tissues have now been replaced by minerals and it no longer exhibits most properties of life, except for: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
  - cells-tissues-organ systems-organism-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 H<sub>2</sub>O
  - salt or NaCl
  - Oxygen or O<sub>2</sub>
  - glucose or C<sub>6</sub>H<sub>12</sub>O<sub>6</sub>
- 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.
  - capillary action
  - 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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## **Table of Contents Biology Final Study Guide Answer Key**

1. Understanding the eBook Biology Final Study Guide Answer Key
  - The Rise of Digital Reading Biology Final Study Guide Answer Key
  - Advantages of eBooks Over Traditional Books
2. Identifying Biology Final Study Guide Answer Key
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Biology Final Study Guide Answer Key
  - User-Friendly Interface
4. Exploring eBook Recommendations from Biology Final Study Guide Answer Key
  - Personalized Recommendations
  - Biology Final Study Guide Answer Key User Reviews and Ratings
  - Biology Final Study Guide Answer Key and Bestseller Lists
5. Accessing Biology Final Study Guide Answer Key Free and Paid eBooks

- Biology Final Study Guide Answer Key Public Domain eBooks
  - Biology Final Study Guide Answer Key eBook Subscription Services
  - Biology Final Study Guide Answer Key Budget-Friendly Options
6. Navigating Biology Final Study Guide Answer Key eBook Formats
- ePub, PDF, MOBI, and More
  - Biology Final Study Guide Answer Key Compatibility with Devices
  - Biology Final Study Guide Answer Key Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Biology Final Study Guide Answer Key
  - Highlighting and Note-Taking Biology Final Study Guide Answer Key
  - Interactive Elements Biology Final Study Guide Answer Key
8. Staying Engaged with Biology Final Study Guide Answer Key
- Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Biology Final Study Guide Answer Key
9. Balancing eBooks and Physical Books Biology Final Study Guide Answer Key
- Benefits of a Digital Library
  - Creating a Diverse Reading Collection Biology Final Study Guide Answer Key
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Biology Final Study Guide Answer Key
- Setting Reading Goals Biology Final Study Guide Answer Key
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Biology Final Study Guide Answer Key
- Fact-Checking eBook Content of Biology Final Study Guide Answer Key
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development

- Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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