

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- A fossil was once a living organism but its tissues have now been replaced by minerals and it no longer exhibits most properties of life, except for: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 H_2O B. salt or $NaCl$ C. Oxygen or O_2 D. glucose or $C_6H_{12}O_6$
- 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 Study Guide Final Exam Key

Joan Low



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Life: The Science of Biology Study Guide William K. Purves, Edward Dzialowski, Lindsay Goodloe, Betty McGuire, Nancy Guild, Paula Mabey, 2003-12-26 New edition of a text presenting underlying concepts and showing their relevance to medical agricultural and environmental issues Seven chapters discuss the cell information and heredity evolutionary process the evolution of diversity the biology of flowering plants and of animals and ecology and biogeography Topics are linked by themes such as evolution the experimental foundations of knowledge the flow of energy in the living world the application and influence of molecular techniques and human health considerations Includes a CD ROM which covers some of the subject matter and introduces and illustrates 1 700 plus key terms and concepts Annotation copyrighted by Book News Inc Portland OR

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Table of Contents Biology Study Guide Final Exam Key

1. Understanding the eBook Biology Study Guide Final Exam Key
 - The Rise of Digital Reading Biology Study Guide Final Exam Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Biology Study Guide Final Exam 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 Study Guide Final Exam Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Biology Study Guide Final Exam Key
 - Personalized Recommendations
 - Biology Study Guide Final Exam Key User Reviews and Ratings
 - Biology Study Guide Final Exam Key and Bestseller Lists

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