

## 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- A fossil was once a living organism but its tissues have now been replaced by minerals and it no longer exhibits most properties of life, except for: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<sub>2</sub>O      B. salt or NaCl      C. Oxygen or O<sub>2</sub>      D. 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?
 

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 Final Exam Study Guide Answers

**RM Cervero**



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## **Table of Contents Biology Semester Final Exam Study Guide Answers**

1. Understanding the eBook Biology Semester Final Exam Study Guide Answers
  - The Rise of Digital Reading Biology Semester Final Exam Study Guide Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying Biology Semester Final Exam Study Guide Answers
  - 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 Semester Final Exam Study Guide Answers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Biology Semester Final Exam Study Guide Answers
  - Personalized Recommendations
  - Biology Semester Final Exam Study Guide Answers User Reviews and Ratings
  - Biology Semester Final Exam Study Guide Answers and Bestseller Lists
5. Accessing Biology Semester Final Exam Study Guide Answers Free and Paid eBooks
  - Biology Semester Final Exam Study Guide Answers Public Domain eBooks
  - Biology Semester Final Exam Study Guide Answers eBook Subscription Services
  - Biology Semester Final Exam Study Guide Answers Budget-Friendly Options

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