

## 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- A fossil was once a living organism but its tissues have now been replaced by minerals and it no longer exhibits most properties of life, except for: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.
  - 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

# Biology Second Semester Exam Study Guide Answers

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## **Biology Second Semester Exam Study Guide Answers:**

*Directory of Distance Learning Opportunities* Modoc Press, Inc.,2003-02-28 This book provides an overview of current K 12 courses and programs offered in the United States as correspondence study or via such electronic delivery systems as satellite cable or the Internet The Directory includes over 6 000 courses offered by 154 institutions or distance learning consortium members Following an introduction that describes existing practices and delivery methods the Directory offers three indexes Subject Index of Courses Offered by Level Course Level Index Geographic Index All information was supplied by the institutions Entries include current contact information a description of the institution and the courses offered grade level and admission information tuition and fee information enrollment periods delivery information equipment requirements credit and grading information library services and accreditation

Biology Edward C. Gruber,1963 *Newly Hired Teachers of Science* Julie A. Luft,Shannon L. Dubois,2015-12-09 Supporting newly hired science teachers has taken on an increased importance in our schools This book shares the most current information about the status of newly hired science teachers different ways in which to support newly hired science teachers and different research approaches that can provide new information about this group of teachers Chapters in the book are written by those who study the status of beginning science teachers mentor new teachers develop induction programs and research the development of new science teachers Newly Hired Teachers of Science is for administrators who have new science teachers in their schools and districts professionals who create science teacher induction programs mentors who work closely with new science teachers educational researchers interested in studying new science teachers and even new science teachers This is a comprehensive discussion about new science teachers that will be a guiding document for years to come

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based on demographics and social backgrounds Despite these varied backgrounds getting invested in the community is crucial for college success for all students Universities have many resources available but students need to learn when to access which resources and how best to engage with people serving students through different roles and with distinct expertise There is no single template for student success Yet this book highlights common issues that many students face and provides science based advice for how to navigate college Each chapter is geared toward college students with a focus on the life stage that many entering college students are in emerging adulthood In addition to the student focused chapters the book includes an appendix for parents and for academics along with supplemental website materials of instructional activities related to the content of the book

**CD-ROM Guide** ,1994    The Publishers' Trade List Annual ,1969    **Clerk, CAF-1 Through CAF-4** David Reuben Turner,1948    **Librarian** Arthur Liebers,1947    *Paperbound Books in Print* ,1992  
*Resources in Education* ,1989    *Instructor's Guide to Accompany The Enduring Vision* Robert B. Grant,1996  
*Special Agent, Treasury Department (CAF 7 to CAF 11)*. David Reuben Turner,1946

## **Biology Second Semester Exam Study Guide Answers** Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has been apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Biology Second Semester Exam Study Guide Answers**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve to the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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