

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- A fossil was once a living organism but its tissues have now been replaced by minerals and it no longer exhibits most properties of life, except for: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

Bob Hartman



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Biology Edward C. Gruber, 1963

Life Study Guide David E. Sadava, Gordon H.

Orians, Craig Heller, William K. Purves, 2006-12-22 Especially helpful for AP Biology students each chapter of the study guide offers a variety of study and review tools The contents of each chapter are broken down into both a detailed review of the Important Concepts covered and a boiled down Big Picture snapshot The guide also covers study strategies common problem areas and provides a set of study questions both multiple choice and short answer **Teaching Self-Regulation** Amy S, Gaumer Erickson, Patricia M. Noonan, 2021-11-30 Self regulation fuels students to become socially and emotionally engaged lifelong learners And just like mastering mathematics or language arts content to develop strong self regulation students need ongoing practice opportunities With this timely resource you ll gain 75 instructional activities to teach self regulation in any secondary classroom Ample teacher tested tools and templates are also included to help you create authentic learning experiences and deliver effective feedback Explore the four components for successful self regulation 1 plan 2 monitor 3 adjust and 4 reflect Develop students planning abilities for both personal and academic goals Guide students in adjusting plans when faced with obstacles Study real life scenarios of how to shift from regulating for students to coaching students to self regulate Review testimonials from teachers and students who have seen and experienced the positive results of self regulation practices Contents Introduction Chapter 1 Understanding Self Regulation Chapter 2 Making a Plan Chapter 3 Monitoring Your Plan and Progress Chapter 4 Adjusting Your Plan Chapter 5 Reflecting On Your Efforts and Outcomes Chapter 6 Putting It All Together Chapter 7 Measuring Growth in Self Regulation Epilogue and Next Steps Appendix A Situational Judgment Assessment Appendix B Self Regulation Questionnaire and Knowledge Test Appendix C Student Templates References and Resources Index *Review Guide for RN Pre-Entrance Exam* National League for Nursing, National League for Nursing. Testing Division, 2009-09-29 One CD ROM disc in pocket Mathematics Mark Patmore, Brian Seager, 2006 Written by examiners and experienced teachers this work offers study and homework support throughout GCSE It is useful as a reference source a lesson back up and a revision guide

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