

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.

1. 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.

2. The smallest unit that has all of the characteristics of life is the:
 A. cell. B. tissue. C. organ. D. organ system. E. organism.

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 A fossil was once a living organism but its tissues have now been replaced by minerals and it no longer exhibits most properties of life, except for: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

4. 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.

5. 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

6. Which level of biological organization is composed of tissues?
 A. organism B. organ system C. organ D. cell E. molecules

7. 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

8. Which of the following is NOT true about DNA?
 A. it has a double helix B. bases held together by hydrogen bonds C. bases are complementary to each other
 D. it has a deoxyribose sugar E. it contains adenine, guanine, cytosine, and uracil

9. All members of one species within a particular area form a:
 A. biosphere. B. ecosystem. C. population. D. nation. E. country.

10. All populations in one natural setting plus their physical environment constitutes a(n):
 A. biosphere. B. ecosystem. C. population. D. habitat. E. cohort.

11. 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.

12. Which of the following is **not** one of the six basic elements of living organisms?
 A. nitrogen B. oxygen C. chlorine D. hydrogen

13. The atoms contain:
 A. neutrons only B. electrons only. C. protons, neutrons, and electrons. D. protons & neutrons.

14. 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.

15. 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 $C_6H_{12}O_6$

16. 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.

17. 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.

18. 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

2nd Semester General Biology Study Guide Answers

Ray Koppelman

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Biology/science Materials Carolina Biological Supply Company,1991

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Course Description This is the suggested course sequence that allows one core area of science to be studied per semester You can change the sequence of the semesters per the needs or interests of your student materials for each semester are independent of one another to allow flexibility Semester 1 Microbiology As the world waits in fear world health organizations race to develop a vaccine for the looming bird flu epidemic a threat that has forced international federal and local governments to begin planning for a possible pandemic and the widespread death and devastation which would follow Will the world find an answer in time Or will we see this threat ravage populations as others have before in 1918 with influenza in the late 18th century with yellow fever or the horrific black death or bubonic plague in 1347 AD Are these viruses examples of evolution Did God make microbes by mistake Are they accidents of evolution out of the primordial soup These timely questions are examined throughout The Genesis of Germs It seems that a new and more terrible disease is touted on the news almost daily The spread of these scary diseases from bird flu to SARS to AIDS is a cause for concern and leads to questions such as Where did all these germs come from and how do they fit into a biblical world view What kind of function did these microbes have before the Fall Does antibiotic resistance in bacteria prove evolution How can something so small have such a huge deadly impact on the world around us Professor Alan Gillen sheds light on these and many other questions in this revealing and detailed book He shows how these constantly mutating diseases are proof for devolution rather than evolution and how all of these germs fit into a biblical world view Dr Gillen shows how germs are symptomatic of the literal Fall and Curse of creation as a result of man s sin and the hope we have in the coming of Jesus Christ Semester 2 Life Science Study clear biological answers for how science and Scripture fit together to honor the Creator Have you ever wondered about such captivating topics as genetics the roll of natural selection embryonic development or DNA and the

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