Last Name, First: _____, _____   Date: _____

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 A fossil was once a living organism but its tissues have now been replaced by minerals and it no longer exhibits most properties of life, except for: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

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 $O2$ 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

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Arthur James Wells

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1. Understanding the eBook Biology Pearson Study Guide Answer Key 39
   - The Rise of Digital Reading Biology Pearson Study Guide Answer Key 39
   - Advantages of eBooks Over Traditional Books
2. Identifying Biology Pearson Study Guide Answer Key 39
   - 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 Pearson Study Guide Answer Key 39
   - User-Friendly Interface
4. Exploring eBook Recommendations from Biology Pearson Study Guide Answer Key 39
   - Personalized Recommendations
   - Biology Pearson Study Guide Answer Key 39 User Reviews and Ratings
   - Biology Pearson Study Guide Answer Key 39 and Bestseller Lists
5. Accessing Biology Pearson Study Guide Answer Key 39 Free and Paid eBooks
   - Biology Pearson Study Guide Answer Key 39 Public Domain eBooks
   - Biology Pearson Study Guide Answer Key 39 eBook Subscription Services
   - Biology Pearson Study Guide Answer Key 39 Budget-Friendly Options
6. Navigating Biology Pearson Study Guide Answer Key 39 eBook Formats

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