

2013-2014 Biology Semester 1 Final Exam Study Guide Answer Key

Chapter 1 Biology in the 21st Century

1. What is biology the study of? **Biology is the study of life.**
2. What are the 4 characteristics of life? **1. All organisms are made up of one or more cells. 2. All organisms need a source of energy for their life processes. 3. All organisms must respond to their environment. 4. Members of a species must have the ability to reproduce and develop.**
3. How are structure and function related in biology? **Structure and function are related at the level of chemicals in cells. Different types of cells have different functions that depend on their specialized structures (i.e. brain cells have branches that receive info from other cells). Structure and function are also related on the level of the organism (i.e. ducks have webbed feet to swim and walk).**
4. What is homeostasis? Give an example of how you maintain homeostasis. **Homeostasis is the maintenance of constant internal conditions. Sweating when you are hot and shivering when you are cold are examples.**
5. List and explain the general steps of the scientific method. **Observation, Hypothesis, Experiment, Collect data, Evaluate results, Draw a conclusion, and Retest.**
6. What are independent and dependent variables? (Explain) **A variable is a factor in the experiment that is being tested. The independent variable is the factor that is controlled/manipulated by the experimenter. The dependent variable is the factor that is being observed/measured.**
7. What are constants and controls? **The experimenter makes a special effort to keep other factors constant (the same) so that they will not affect the outcome. Those factors are called control variables.**

8. Sugar dissolves in, or mixes completely with, water. The solubility of a substance in water is determined by measuring the maximum amount of the substance that dissolves in a given amount of water at a given temperature. **HYPOTHESIS: The solubility of sugar in water increases as the temperature of the water decreases. Identify the independent and dependent variables. Ind. var – temp. of water Dep. var – solubility of sugar**
9. An electromagnet can be made by wrapping insulated wire around an iron nail and connecting the ends of the wire to a 6-volt battery. **HYPOTHESIS: Increasing the number of coils of wire wrapped around the nail increases the strength of the electromagnet, as measured by the number of paper clips the magnet can pick up. Identify the independent and dependent variables. Ind. var – number of coils wrapped around nail; Dep. var – strength of electromagnet**

Chapter 2 Chemistry of Life

1. What is the difference between a covalent bond and an ionic bond? **A covalent bond involves the sharing of electrons while an ionic bond requires the transfer of electrons.**
2. What are the 4 properties of water? **Water is a polar molecule. It has hydrogen bonds that are responsible for water's high specific heat, cohesion, and adhesion.**
3. Is water polar or non-polar, and why is this important? **Water is a polar molecule; this is important because it allows water to have charged regions which in turn allows hydrogen bonds to form.**
4. What is adhesion? (give an example) **Adhesion is the attraction among molecules of different substances (i.e. water molecules sticking to the sides of a glass).**
5. What is cohesion? (give an example) **Cohesion is the attraction among molecules of the same substance (i.e. water sticking to water).**

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Xiang Xie



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