

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).**

Biology Answer Key Final In 1th Sem 2014

**Benjamin Coiffard,Philippe
Soubeyran,Eric Ghigo**



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Character Education for 21st Century Global Citizens Endah Retnowati, Anik Ghufon, Marzuki, Kasiyan, Adi Pierawan, Ashadi, 2018-09-25 Character Education for 21st Century Global Citizens contains the papers presented at the 2nd International Conference on Teacher Education and Professional Development InCoTEPD 2017 Yogyakarta Indonesia 20 21 October 2017 The book covers 7 topics Values for 21st century global citizens Preparing teachers for integrative values education Teacher professional development for enhanced character education Curriculum syllabus lesson plan learning materials development for integrated values education Developing learning activities tasks strategies for character education Assessing student s character development values acquisition assessment Creating managing conducive school culture to character education

Manipulation of the cellular microbicidal response and endocytic dynamic by pathogens membrane factors Benjamin Coiffard, Philippe Soubeyran, Eric Ghigo, 2015-07-10 Intracellular pathogens such as bacteria and parasites have evolved specialized mechanisms to survive and replicate in their host leading to disorders and diseases The principle of these mechanisms is to reprogram the microbicidal cell function in order to disable the host cells defence that aims to control and eliminate foreign invaders Devoid of their defence cells become permissive to pathogens invasion The aim of this Research Topic is to highlight and cover recent understanding of mechanisms and molecules used by pathogens to interfere with the microbicidal function of cells This Research Topic will focus on the reprogramming of the cellular dynamics the immune response the phagolysosome biogenesis and the signal transduction pathways by pathogens Special attention will be made on non proteic virulence factors however this Research Topic is not restricted to non proteic virulence factors

Extremophiles: Microbial Genomics and Taxogenomics Rafael R. de la Haba, André Antunes, Brian P. Hedlund, 2022-08-31

Enamel Research: Mechanisms and Characterization Bernhard Ganss, Megan Pugach, 2016-11-23 The rodent incisor is a good model system to study the molecular and cellular events that are involved in enamel biomineralization Incisors in rodents continuously erupt during their lifespan thus allowing the study of all stages of enamel synthesis deposition mineralization and maturation in the same tissue section This model system has provided invaluable insight into the specifics of enamel formation as a basis to understand human pathologies such as amelogenesis imperfect Furthermore the rodent incisor allows exploration and understanding of some of the most fundamental mechanisms that govern biomineralization Enamel is the most mineralized hardest tissue in the body It is formed within a unique organic matrix that unlike other hard tissues such as bone and dentin does not contain collagen The formation of enamel can be divided into two main stages the secretory and maturation stage During the secretory stage a highly ordered arrangement of hydroxyapatite crystals is formed under the influence of structural matrix proteins such as amelogenin ameloblastin and enamelin During the maturation stage the organic matrix is removed and hydroxyapatite crystals expand to ultimately yield a functional hard structure consisting of over 96% mineral Research efforts over the past decades have mainly focused on the

secretory stage providing novel insights into the concept of biomineralization However the events that occur during the maturation stage have not been yet explored in detail likely because the physiological roles of the enamel forming ameloblasts are more diverse and complex at this stage Mature ameloblasts are involved in the regulation of calcium transport in large amounts phosphate and protein fragments in and out of the maturing enamel and provide regulatory mechanisms for the control of the pH In recent years increased efforts have been dedicated towards defining the molecular events during enamel maturation The development of an ever increasing number of transgenic animal models has clearly demonstrated the essential roles of matrix and non matrix proteins during enamel formation Multiple traditional and modern analytical techniques are applied for the characterization of enamel in these animals The need for this Research Topic therefore stems from new information that has been generated on molecular events during the enamel maturation stage and the development and application of highly advanced analytical techniques to characterize dental enamel The benefits and limitations of these techniques need to be reviewed and their application standardized for valid comparative studies

Mechanical Engineering and Materials Science M.R. Xue,K.M. Li,M.H. Lee,X.Y. Zhang,2014-12-31 Selected peer reviewed papers from the 2014 International Conference on Intelligent Mechanics and Materials Engineering ICIMME 2014 December 27 28 2014 Shenzhen China Directory of Published Proceedings ,1985 Forthcoming Books Rose Arny,1998

International Books in Print ,1991 *Science Shepherd Biology Answer Key and Parent Companion* Scott Hardin,2013

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