

BIOLOGY

ESSAY QUESTIONS AND ANSWERS

I. Photosynthesis

1. Write an essay describing the process of photosynthesis.

Photosynthesis occurs in two stages, that is, light stage and dark stage. During light stage, light energy is trapped by chlorophyll in the chloroplast and converted into chemical energy. The chemical energy is used to split water molecules into hydrogen and oxygen atoms. The hydrogen is used in the dark stage, while oxygen molecules are released into the atmosphere as oxygen gas or used for aerobic respiration. Some of the chemical energy is used to combine a molecule called adenosine diphosphate with a phosphate group to form the rich energy molecule called adenosine tri-phosphate.

During dark stage, the hydrogen atoms formed in light stage are combined with carbon dioxide to form glucose using energy from ATP.

2. Describe any *five* ways in which a plant leaf is adapted to its function. Your answer should be in essay form.

Firstly, the leaf has broad and flattened surface. This increases the surface area for absorption of carbon dioxide and sunlight.

Secondly, the leaf is supported by a stem and a petiole. This exposes as much of the leaf as possible to sunlight and air.

Thirdly, the leaf has thin lamina. This reduces the distance across which carbon dioxide diffuses from stomata to photosynthetic cells.

Fourthly, the leaf has network of veins. This provides a good water supply to the photosynthesizing mesophyll cells.

Lastly, the leaf has stomata on its surface. These allow carbon dioxide to enter the leaf.

3. Explain *five* ways in which glucose is used by the plant after photosynthesis. (2004)

Firstly, glucose is used for respiration which produces energy for growth and active transport of substances across membranes.

Secondly, glucose is converted to cellulose which is used to form cell walls that protect the cell from bursting due to osmosis.

Glucose is combined with nitrogen to form proteins which is used to form enzymes.

Fourthly, glucose is converted to fats which are used to form cell membrane that controls substances getting into the cell.

Lastly, glucose is transported to storage organs where it is converted to starch for storage.

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Handbook of nutrition and diet in leukemia and blood disease therapy Ronald Ross Watson, Daruka Mahadevan, 2023-08-07 This handbook provides an overview of the latest science of the influence of nutrition on blood cells and blood diseases Blood diseases include a broad range of nutritional deficiencies leukemias and genetic mutations associated with an increased risk of infections Reduced red blood cell production can lead to nutritional diseases and anemias requiring iron supplementation Patients with anemia feel sick fatigued and have nausea affecting food intake worsening their condition Changes in serum and blood cells affect coagulation as well as the immune cells production of cytokines and immunoglobulin The blood cells interactions affect all major organ systems Nutrition and food plays a key role in the health of blood cells and their functions Vitamins and minerals such as vitamin E C and iron affect the production of blood cells and their proteins including hemoglobin In addition other nutrients like glutamine L carnitine and the amino acid taurine play a crucial role in the production of blood cells and blood related diseases This book discusses nutritional therapies concerning stem cell transplantation iron deficiency cardiovascular diseases sickle cell anemia and sepsis patients among others Nutritional therapy and management in leukemia is given a major focus The key goal of this handbook is to review some of the nutritional approaches for efficacy in treatment of blood diseases reduction of their clinical complications and the improvement of the quality of life of these patients

Implementation of the Magnuson-Stevens Fishery Conservation and Management Act United States. Congress. Senate. Committee on Commerce, Science, and Transportation. Subcommittee on Oceans, Atmosphere, Fisheries, and Coast Guard, 2011 *Interior, Environment, and Related Agencies Appropriations for 2015: Justification of the budget estimates: National Park Service; U.S. Geological Survey* United States. Congress. House. Committee on Appropriations. Subcommittee on Interior, Environment, and Related Agencies, 2014 *Interior, Environment, and Related Agencies Appropriations for 2015* United States. Congress. House. Committee on Appropriations. Subcommittee on Interior, Environment, and Related Agencies, 2014

The Senses: A Comprehensive Reference, 2020-09-30 The Senses A Comprehensive Reference Second Edition Seven Volume Set is a comprehensive reference work covering the range of topics that constitute current knowledge of the neural mechanisms underlying the different senses This important work provides the most up to date cutting edge comprehensive reference combining volumes on all major sensory modalities in one set Offering 264 chapters from a distinguished team of international experts The Senses lays out current knowledge on the anatomy physiology and molecular biology of sensory organs in a collection of comprehensive chapters spanning 4 volumes Topics covered include the perception psychophysics and higher order processing of sensory information as well as disorders and new diagnostic and treatment methods Written for a wide audience this reference work provides students scholars medical doctors as well as anyone interested in neuroscience a comprehensive overview of the knowledge accumulated on the function of sense organs sensory systems and

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Debating Modern Medical Technologies Karen J. Maschke, Michael K. Gusmano, 2018-09-14 This book analyzes policy fights about what counts as good evidence of safety and effectiveness when it comes to new health care technologies in the United States and what political decisions mean for patients and doctors Medical technologies often promise to extend and improve quality of life but come with many questions Are they safe and effective Are they worth the cost When should they be allowed on the market and when should Medicare Medicaid and private insurance companies be required to pay for drugs devices and diagnostic tests Using case studies of disputes about the value of mammography screening genetic testing for disease risk brain imaging technologies to detect biomarkers associated with Alzheimer's disease cell based therapies and new expensive drugs Maschke and Gusmano illustrate how scientific disagreements about what counts as good evidence of safety and effectiveness are often swept up in partisan fights over health care reform and battles among insurance and health care companies physicians and patient advocates Debating Modern Medical Technologies The Politics of Safety Effectiveness and Patient Access reveals stakeholders differing values and interests regarding patient choice physician autonomy risk assessment government intervention in medicine and technology assessment and scientific innovation as a driver of national and global economies It will help readers to understand the nature and complexity of past and current policy disagreements and their effects on patients

Catalog of Federal Domestic Assistance, 2009 Identifies and describes specific government assistance opportunities such as loans grants counseling and procurement contracts available under many agencies and programs

Pathways to Urban Sustainability National Academies of Sciences, Engineering, and Medicine, Policy and Global Affairs, Science and Technology for Sustainability Program, Committee on Pathways to Urban Sustainability: Challenges and Opportunities, 2016-11-11 Cities have experienced an unprecedented rate of growth in the last decade More than half the world's population lives in urban areas with the U.S. percentage at 80 percent Cities have captured more than 80 percent of the globe's economic activity and offered social mobility and economic prosperity to millions by clustering creative innovative and educated individuals and organizations Clustering populations however can compound both positive and negative conditions with many modern urban

areas experiencing growing inequality debility and environmental degradation The spread and continued growth of urban areas presents a number of concerns for a sustainable future particularly if cities cannot adequately address the rise of poverty hunger resource consumption and biodiversity loss in their borders Intended as a comparative illustration of the types of urban sustainability pathways and subsequent lessons learned existing in urban areas this study examines specific examples that cut across geographies and scales and that feature a range of urban sustainability challenges and opportunities for collaborative learning across metropolitan regions It focuses on nine cities across the United States and Canada Los Angeles CA New York City NY Philadelphia PA Pittsburgh PA Grand Rapids MI Flint MI Cedar Rapids IA Chattanooga TN and Vancouver Canada chosen to represent a variety of metropolitan regions with consideration given to city size proximity to coastal and other waterways susceptibility to hazards primary industry and several other factors

Minnesota Law Review ,2015 *National Woodlands* ,2002 **Psychology in Everyday Life** David G.

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Table of Contents Biology Act Released Questions And Answers 2013

1. Understanding the eBook Biology Act Released Questions And Answers 2013
 - The Rise of Digital Reading Biology Act Released Questions And Answers 2013
 - Advantages of eBooks Over Traditional Books
2. Identifying Biology Act Released Questions And Answers 2013
 - 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 Act Released Questions And Answers 2013
 - User-Friendly Interface
4. Exploring eBook Recommendations from Biology Act Released Questions And Answers 2013
 - Personalized Recommendations
 - Biology Act Released Questions And Answers 2013 User Reviews and Ratings
 - Biology Act Released Questions And Answers 2013 and Bestseller Lists
5. Accessing Biology Act Released Questions And Answers 2013 Free and Paid eBooks
 - Biology Act Released Questions And Answers 2013 Public Domain eBooks
 - Biology Act Released Questions And Answers 2013 eBook Subscription Services
 - Biology Act Released Questions And Answers 2013 Budget-Friendly Options
6. Navigating Biology Act Released Questions And Answers 2013 eBook Formats

- ePub, PDF, MOBI, and More
 - Biology Act Released Questions And Answers 2013 Compatibility with Devices
 - Biology Act Released Questions And Answers 2013 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Biology Act Released Questions And Answers 2013
 - Highlighting and Note-Taking Biology Act Released Questions And Answers 2013
 - Interactive Elements Biology Act Released Questions And Answers 2013
 8. Staying Engaged with Biology Act Released Questions And Answers 2013
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Biology Act Released Questions And Answers 2013
 9. Balancing eBooks and Physical Books Biology Act Released Questions And Answers 2013
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Biology Act Released Questions And Answers 2013
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Biology Act Released Questions And Answers 2013
 - Setting Reading Goals Biology Act Released Questions And Answers 2013
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Biology Act Released Questions And Answers 2013
 - Fact-Checking eBook Content of Biology Act Released Questions And Answers 2013
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
 14. Embracing eBook Trends
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