

LIFE SCIENCES GRADE 12

PRACTICAL TASK TERM 1 2023

DURATION: 45 Minutes

DNA:	THE	CODE	OF	LIFE

Total 30

INSTRUCTIONS AND INFORMATION

Read the following instructions carefully before answering the questions.

- This is a formal SBA task and MUST be done under supervised conditions in the classroom.
- Each learner completes this task on his/her own (under test conditions).
- Present your answers as per the instructions of each question.
- Draw all diagrams in pencil and label in blue ink.
- The diagrams in this task may NOT be drawn to scale.

BACKGROUND INFORMATION

There are two types of nucleic acids in all living organisms – DNA (deoxyribonucleic acid) and RNA (ribonucleic acid). Together these form the basis of all life on earth.

They consist of monomers (building blocks) called nucleotides. In 1952 the British chemist, Rosalind Franklin and her assistant Maurice Wilkins researched the structure of DNA using X-ray diffraction images. Watson and Crick did independent research on DNA. Upon seeing Franklin's images, they proposed a 3-D double helix model of DNA in 1953. In 1962 Watson and Crick received the Nobel Prize for the discovery of the structure of DNA, and Wilkins received an award for his X-ray photography. Franklin had died of cancer.

Source: DBE Life Sciences textbook

Diagram 1 below illustrates some of the components of nucleic acids.

Phosphate	Deoxyribose/Ribose	Cytosine	Thymine
\circ			
Hydrogen bond	Guanine		

QUESTION 1

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Margaret Bailey, Laura Shackelford

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Teaching Political Science: A Practical Guide for Instructors Amanda M. Rosen, 2024-08-01 This book applies the existing literature in the scholarship of teaching and learning to political science advising discipline specific tips approaches and strategies to put immediately into practice Keeping in mind the pace of an academic career it also challenges the widely held misconception that being a good teacher requires a huge time investment This book is meant for three core audiences graduate students taking a course on teaching political science or about to embark on their first teaching experience newly minted PhDs facing their first academic post and trying to figure out how to balance all of their new responsibilities and veteran instructors looking to prepare a new course or revise an existing one **Digital Phenotyping and Mobile** Sensing Christian Montag, Harald Baumeister, 2022-07-22 This book offers a snapshot of cutting edge applications of digital phenotyping and mobile sensing for studying human behavior and planning innovative e healthcare interventions The respective chapters written by authoritative researchers cover both theoretical perspectives and good scientific and professional practices related to the use and development of these technologies. They share novel insights into established applications of mobile sensing such as predicting personality or mental and behavioral health on the basis of smartphone usage patterns and highlight emerging trends such as the use of machine learning big data and deep learning approaches and the combination of mobile sensing with AI and expert systems Important issues relating to privacy and ethics are analyzed together with selected case studies This thoroughly revised and extended second edition provides researchers and professionals with extensive information on the latest developments in the field of digital phenotyping and mobile sensing It gives a special emphasis to trends in diagnostics systems and AI applications suggesting important future directions for research in public health and social sciences **Artificial General Intelligence** Tom Everitt, Ben Goertzel, Alexey Potapov, 2017-08-06 This book constitutes the proceedings of the 10th International Conference on Artificial General Intelligence AGI 2017 held in Melbourne VIC Australia in August 2017 The 24 regular papers presented in this book together with 1 short paper were carefully reviewed and selected from 35 submissions They cover topics such as architectures mathematical foundations algorithms safety understanding human cognition and philosophy Data Management Margaret E. Henderson, 2016-10-25 Libraries organize information and data is information so it is natural that librarians should help people who need to find organize use or store data Organizations need evidence for decision making data provides that evidence Inventors and creators build upon data collected by others All around us people need data Librarians can help increase the relevance of their library to the research and education mission of their institution by learning more about data and how to manage it Data Management will guide readers through Understanding data management basics and best practices Using the reference interview to help with data managementWriting data management plans for grants Starting and growing a data management service Finding collaborators inside and outside the library Collecting and using data in

different disciplines The Effects of Noise on Aquatic Life Arthur N. Popper, Joseph A. Sisneros, Anthony D. Hawkins, Frank Thomsen, 2024-10-03 In this landmark new work the major authorities in the field from around the world present a wealth of research data coverage of regulatory issues and thinking about the effects of man made noise on marine mammals turtles amphibians fishes and invertebrates The various themes of the book were chosen to cover the wide range of basic and cutting edge information on this topic They include the hearing abilities of aquatic animals communication by means of underwater sound the description of aquatic soundscapes different sound sources and their characteristics the effects of sound on behavior and assessing mitigating and monitoring the effects of aquatic noise Emphasis is on the cross fertilization of ideas and findings across species and noise sources With over 140 contributions from leading researchers the sources of underwater sound and their effects are discussed in detail Strategies for Team Science Success Kara L. Hall, Amanda L. Vogel, Robert T. Croyle, 2019-11-13 Collaborations that integrate diverse perspectives are critical to addressing many of our complex scientific and societal problems Yet those engaged in cross disciplinary team science often face institutional barriers and collaborative challenges Strategies for Team Science Success offers readers a comprehensive set of actionable strategies for reducing barriers and overcoming challenges and includes practical guidance for how to implement effective team science practices More than 100 experts including scientists administrators and funders from a wide range of disciplines and professions explain evidence based principles highlight state of the art strategies tools and resources and share first person accounts of how they ve applied them in their own successful team science initiatives While many examples draw from cross disciplinary team science initiatives in the health domain the handbook is designed to be useful across all areas of science Strategies for Team Science Success will inspire and enable readers to embrace cross disciplinary team science by articulating its value for accelerating scientific progress and by providing practical strategies for success Scientists administrators funders and others engaged in team science will also leave equipped to develop new policies and practices needed to keep pace in our rapidly changing scientific landscape Scholars across the Science of Team Science SciTS management organizational behavioral and social sciences public health philosophy and information technology among other areas of scholarship will find inspiration for new research directions to continue advancing cross disciplinary team science Federal Register ,2014 **Effective Monitoring to Evaluate Ecological Restoration in** the Gulf of Mexico National Academies of Sciences, Engineering, and Medicine, Division on Earth and Life Studies, Water Science and Technology Board, Ocean Studies Board, Committee on Effective Approaches for Monitoring and Assessing Gulf of Mexico Restoration Activities, 2017-03-16 Gulf Coast communities and natural resources suffered extensive direct and indirect damage as a result of the largest accidental oil spill in US history referred to as the Deepwater Horizon DWH oil spill Notably natural resources affected by this major spill include wetlands coastal beaches and barrier islands coastal and marine wildlife seagrass beds oyster reefs commercial fisheries deep benthos and coral reefs among other habitats and

species Losses include an estimated 20% reduction in commercial fishery landings across the Gulf of Mexico and damage to as much as 1 100 linear miles of coastal salt marsh wetlands This historic spill is being followed by a restoration effort unparalleled in complexity and magnitude in U S history Legal settlements in the wake of DWH led to the establishment of a set of programs tasked with administering and supporting DWH related restoration in the Gulf of Mexico In order to ensure that restoration goals are met and money is well spent restoration monitoring and evaluation should be an integral part of those programs However evaluations of past restoration efforts have shown that monitoring is often inadequate or even absent Effective Monitoring to Evaluate Ecological Restoration in the Gulf of Mexico identifies best practices for monitoring and evaluating restoration activities to improve the performance of restoration programs and increase the effectiveness and longevity of restoration projects This report provides general guidance for restoration monitoring assessment and synthesis that can be applied to most ecological restoration supported by these major programs given their similarities in restoration goals It also offers specific guidance for a subset of habitats and taxa to be restored in the Gulf including oyster reefs tidal wetlands and seagrass habitats as well as a variety of birds sea turtles and marine mammals Theory, Research, and Practical Guidelines for Family Life Coaching Kimberly Allen, 2016-05-24 This volume focuses on breaking ground with family coaching presenting theory research and practical guidelines for researchers educators and practitioners Readers will discover a theoretical overview of coaching psychology and family science accessibly presented research and models of family coaching and family life education The insight this book provides into family systems and practical information on coaching families will be valuable to youth coaches parent coaches life coaches and counsellors amongst others Beginning with a brief introduction on the necessity of this volume and further research on family coaching in general the author takes readers progressively through the family coaching process The book explores specific strategies for coaching parents couples and families on relationships parenting special needs and much more Each chapter offers a theoretical base as well as applied guidance including case studies powerful questions and tips from experienced family coaches Whether you are a family therapist a coaching psychologist or a family life professional that serves children and families this book is ideal for gaining a better understanding of how to coach families toward positive family functioning Dr Kim Allen delivers an engaging and reflective book offering a comprehensive guide for those interested in becoming a family coach Science Teachina in Schools Great Britain: Parliament: House of Lords: Science and Technology Committee, 2006-11-05 The Committee's report examines science and mathematics teaching in secondary schools in England focusing on the following issues the take up of science and mathematics at GCSE and A level the provision of careers advice to students problems in the recruitment and retention of teachers the quality of teaching methods and the role of continuing professional development The Committee finds that effective science teaching in schools is essential both in order to ensure a satisfactory general level of scientific literacy in society and to enable the next generation of scientists and engineers to progress into higher education and beyond

It argues that the current examination system forces students to study an excessively narrow range of subjects at too early an age and it recommends that the Government should reconsider the Tomlinson proposals for a broader diploma based system for 14 19 year old students based on the International Baccalaureate This would ensure that students receive a more rounded education and are not made to over specialise before they are able to see the merits of studying science and mathematics Concerns are also raised about the shortage of science teachers particularly specialist physics and chemistry teachers the quality of careers advice in schools and the importance of practical science in schools **Maldives Investment and** Business Guide Volume 1 Strategic and Practical Information IBP, Inc., 2015-09-11 Maldives Investment and Business The 1970 UNESCO and 1995 UNIDROIT Conventions on Guide Volume 1 Strategic and Practical Information Stolen or Illegally Transferred Cultural Property, 2024-02-06 The illicit traffic in cultural objects is a grave concern to the general public and international community The resulting cultural damage fuels debates on how best to regulate the trade in cultural objects and inform legal responses at all levels for the protection of movable cultural heritage Treaties concerning the treatment of cultural objects during peacetime and war represent some of the earliest multilateral initiatives on cultural heritage in the modern era They also remain some of the most deeply contested representing shifting fault lines within the international community Authored by leading scholars and practitioners from around the world this Commentary is the first to cover the two leading multilateral treaties on movable cultural heritage in one volume the Convention on the Means of Prohibiting and Preventing the Illicit Import Export and Transfer of Ownership of Cultural Property adopted by UNESCO in 1970 and the Convention on Stolen or Illegally Exported Cultural Objects adopted by UNIDROIT in 1995 This Commentary is designed to be the authoritative text for academics lawyers policymakers and diplomats on the protection and regulation of cultural objects Encompassing both public and private international law rules on the trade in cultural objects it provides a detailed historical and thematic overview Drawing on the travaux preparatoires and intergovernmental and state practice over the last half century the Commentary provides an article by article analysis of the interpretation and application of these treaties The texts 1970 UNESCO and 1995 UNIDROIT Conventions are examined in the working context of other culture conventions including the World Heritage Convention and the Intangible Heritage Convention as well as related fields of international law such as international humanitarian law international criminal law human rights law and international economic law The volume also offers a critical examination of current trends and future directions which are Transforming Education Outside the Classroom Great Britain: Parliament: House of Commons: informing the field Children, Schools and Families Committee, 2010 Reports on progress in children s education outside the classroom and looks at the lack of growth in the number of school trips and visits The Drug Expert Craig W. Stevens, 2020-01-08 The Drug Expert A Practical Guide to the Impact of Drug Use in Legal Proceedings targets academic and industry pharmacologists pharmacology graduate students and professionals and students of affiliated disciplines such as pharmacy and toxicology

Users will find it to be an invaluable reference for those involved in the field In addition pharmacists and others who increasingly serve as expert witnesses and toxicologists will find an array of very useful information Focuses on important topics for the consulting pharmacologist including prescription over the counter and illegal drugs and their effects on criminal and civil proceedings Details the how to aspects of being an expert witness in pharmacology by presenting real life cases and effective tips and experiences Includes several appendices such as a sample letter of engagement and fee schedule a litigation report a consulting invoice and valuable resources Women in Mechanical Engineering Margaret Bailey, Laura Shackelford, 2022-04-27 This book features influential scholarly research and technical contributions professional trajectories disciplinary shifts personal insights and a combination of these from a group of remarkable women within mechanical engineering Combined these chapters tell an important story about the dynamic field of mechanical engineering in the areas of energy and the environment as seen from the perspective of some of its most extraordinary women scientists and engineers The volume shares with the Women in Engineering and Science Series the primary aim of documenting and raising awareness of the valuable multi faceted contributions of women engineers and scientists past and present to these areas Women in mechanical engineering and energy and the environment are historically relevant and continue to lead these fields as passionate risk takers entrepreneurs innovators educators and researchers Chapter authors are members of the National Academies winners of major awards and recognition that include Presidential Medals as well as SWE SAE ASME ASEE and IEEE Award winners and Fellows Communication and Colonialism in Eastern India Nitin Sinha, 2014-10-01 Through a regional focus on Bihar between the 1760s and 1880s Communication and Colonialism in Eastern India reveals the shifting and contradictory nature of the colonial state s policies and discourses on communication The volume explores the changing relationship between trade transport and mobility in India as evident in the trading and mercantile networks operating at various scales of the economy Of crucial importance to this study are the ways in which knowledge about roads and routes was collected through practices of travel tours surveys and map making all of which benefited the state in its attempts to structure a regime that would regulate undesirable forms of mobility Management of Legionella in Water Systems National Academies of Sciences, Engineering, and Medicine, Health and Medicine Division, Division on Earth and Life Studies, Board on Population Health and Public Health Practice, Board on Life Sciences, Water Science and Technology Board, Committee on Management of Legionella in Water Systems, 2020-02-20 Legionnaires disease a pneumonia caused by the Legionella bacterium is the leading cause of reported waterborne disease outbreaks in the United States Legionella occur naturally in water from many different environmental sources but grow rapidly in the warm stagnant conditions that can be found in engineered water systems such as cooling towers building plumbing and hot tubs Humans are primarily exposed to Legionella through inhalation of contaminated aerosols into the respiratory system Legionnaires disease can be fatal with between 3 and 33 percent of Legionella infections leading to death

and studies show the incidence of Legionnaires disease in the United States increased five fold from 2000 to 2017 Management of Legionella in Water Systems reviews the state of science on Legionella contamination of water systems specifically the ecology and diagnosis This report explores the process of transmission via water systems quantification prevention and control and policy and training issues that affect the incidence of Legionnaires disease It also analyzes existing knowledge gaps and recommends research priorities moving forward **Scientific and Technical Aerospace** Human Rights and the Refugee Definition Bruce Burson, David James Cantor, 2016-02-02 Does human rights law help us to define who qualifies as a refugee If so then how These deceptively simple questions sit at the heart of an intense contemporary debate over whether or how interpretation of the refugee definition in the Refugee Convention should take account of human rights law In Human Rights and the Refugee Definition Burson and Cantor bring a fine grained comparative perspective to this debate For the first time they collect together in one edited volume over a dozen new studies by leading scholars and practitioners that explore in detail how these legal dynamics play out in a range of national and international jurisdictions and in relation to particular thematic challenges in refugee law Innovative Data Communication Technologies and Application Jennifer S. Raj, Khaled Kamel, Pavel Lafata, 2022-02-24 This book presents the latest research in the fields of computational intelligence ubiquitous computing models communication intelligence communication security machine learning informatics mobile computing cloud computing and big data analytics The best selected papers presented at the International Conference on Innovative Data Communication Technologies and Application ICIDCA 2021 are included in the book The book focuses on the theory design analysis implementation and application of distributed systems and networks

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