

**LIFE SCIENCES GRADE 12****PRACTICAL TASK TERM 1 2023****DNA: THE CODE OF LIFE****DURATION: 45 Minutes****Total****30****INSTRUCTIONS AND INFORMATION**

Read the following instructions carefully before answering the questions.

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

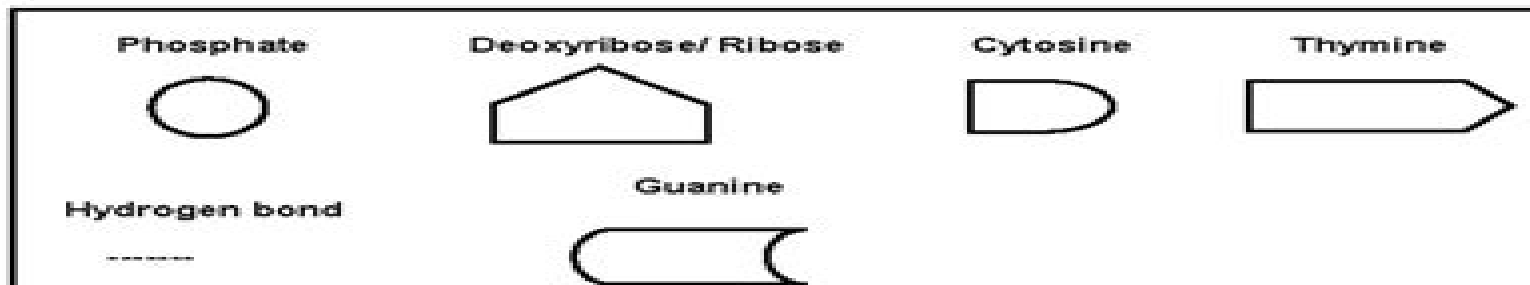
**BACKGROUND INFORMATION**

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.

**QUESTION 1**

# Life Sciences Practical Task 3 Memorandum 2015

**Marco Cascella**



### **Life Sciences Practical Task 3 Memorandum 2015:**

**Literature 1988, Part 2** Astronomisches Rechen-Institut, 2013-06-29 From the reviews Astronomy and Astrophysics Abstracts has appeared in semi annual volumes since 1969 and it has already become one of the fundamental publications in the fields of astronomy astrophysics and neighbouring sciences It is the most important English language abstracting journal in the mentioned branches The abstracts are classified under more than a hundred subject categories thus permitting a quick survey of the whole extended material The AAA is a valuable and important publication for all students and scientists working in the fields of astronomy and related sciences As such it represents a necessary ingredient of any astronomical library all over the world Space Science Reviews 1 Dividing the whole field plus related subjects into 108 categories each work is numbered and most are accompanied by brief abstracts Fairly comprehensive cross referencing links relevant papers to more than one category and exhaustive author and subject indices are to be found at the back making the catalogues easy to use The series appears to be so complete in its coverage and always less than a year out of date that I shall certainly have to make a little more space on those shelves for future volumes The Observatory Magazine 2 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 *Handbook of Systems Engineering and Risk Management in Control Systems, Communication, Space Technology, Missile, Security and Defense Operations* Anna M. Doro-on, 2022-09-27 This book provides multifaceted components and full practical perspectives of systems engineering and risk management in security and defense operations with a focus on infrastructure and manpower control systems missile design space technology satellites intercontinental ballistic missiles and space security While there are many existing selections of systems engineering and risk management textbooks there is no existing work that connects systems engineering and risk management concepts to solidify its usability in the entire security and defense actions With this book Dr Anna M Doro on rectifies the current imbalance She provides a comprehensive overview of systems engineering and risk management before moving to deeper practical engineering principles integrated with newly developed concepts and examples based on industry and government methodologies The chapters also cover related points including design principles for defeating and deactivating improvised explosive devices and land mines and security measures against kinds of threats The book is designed for systems engineers in practice political risk professionals managers policy makers engineers in other

engineering fields scientists decision makers in industry and government and to serve as a reference work in systems engineering and risk management courses with focus on security and defense operations

**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

*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

**Compiler Construction** Björn Franke,2015-03-31 This book constitutes the proceedings of the 24th International Conference on Compiler Construction CC 2015 held as part of the European Joint Conferences on Theory and Practice of Software ETAPS 2015 in London UK in April 2015 The 11 papers presented in this volume were carefully reviewed and selected from 34 submissions They deal with compiler engineering and compiling techniques compiler analysis and optimisation and formal techniques in compilers The book also contains one invited talk in full paper length

Handbook of Research on Operational Quality Assurance in Higher Education for Life-Long Learning Nuninger, Walter,Châtelet, Jean-Marie,2019-12-06 Previously key levers of higher education have seemed to be the learning organization work integrated learning for life long learning and learner centered pedagogy However funding evolution and the integration of digital tools are changing professional styles and learning behaviors Nonetheless the sustainability of higher education requires quality agreement based on ethical robust and replicable pedagogical approaches The Handbook of Research on Operational Quality Assurance in Higher Education for Life Long Learning is a comprehensive scholarly book that focuses on the evolution of the education framework and job market as well as necessary changes needed in organizations to reply to life long learning and competency based training initiatives Highlighting topics such as digital environment e learning and learning analytics this book is essential for higher education faculty managers deans professionals administrators educators academicians researchers and policymakers

*Technical questions and answers for job interview Offshore Oil & Gas Platforms* Petrogav International Oil & Gas Training Center,2020-06-30 The job interview is probably the most important step you will take in your job search journey Because it s always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry Since these questions are so common hiring managers will expect you to be able to answer them smoothly and without hesitation This eBook contains 273 questions and answers for job interview and as a BONUS web addresses to 100 video movies for a better understanding of the technological process This course covers aspects like HSE Process Mechanical Electrical and Instrumentation Control that will enable you to apply for any position in the Oil and Gas Industry

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prepared this eBooks that will help you to get a job in oil and gas industry Since these questions are so common hiring managers will expect you to be able to answer them smoothly and without hesitation This eBook contains 291 questions and answers for job interview and as a BONUS web addresses to 288 video movies for a better understanding of the technological process This course covers aspects like HSE Process Mechanical Electrical and Instrumentation Control that will enable you to apply for any position in the Oil and Gas Industry     *100 technical questions and answers for job interview Offshore Oil & Gas Rigs* Petrogav International Oil & Gas Training Center,2020-06-30 The job interview is probably the most important step you will take in your job search journey Because it s always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry Since these questions are so common hiring managers will expect you to be able to answer them smoothly and without hesitation This eBook contains 100 questions and answers for job interview and as a BONUS web addresses to 230 video movies for a better understanding of the technological process This course covers aspects like HSE Process Mechanical Electrical and Instrumentation Control that will enable you to apply for any position in the Oil and Gas Industry     *100 technical questions and answers for job interview Offshore Drilling Rigs* Petrogav International Oil & Gas Training Center,2020-06-28 The job interview is probably the most important step you will take in your job search journey Because it s always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry Since these questions are so common hiring managers will expect you to be able to answer them smoothly and without hesitation This eBook contains 100 questions and answers for job interview and as a BONUS 230 links to video movies This course covers aspects like HSE Process Mechanical Electrical and Instrumentation Control that will enable you to apply for any position in the Oil and Gas Industry     [150 technical questions and answers for job interview Offshore Oil & Gas Platforms](#) Petrogav International Oil & Gas Training Center,2020-06-30 The job interview is probably the most important step you will take in your job search journey Because it s always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry Since these questions are so common hiring managers will expect you to be able to answer them smoothly and without hesitation This eBook contains 150 questions and answers for job interview and as a BONUS web addresses to 220 video movies for a better understanding of the technological process This course covers aspects like HSE Process Mechanical Electrical and Instrumentation Control that will enable you to apply for any position in the Oil and Gas Industry     **Energy Research Abstracts** ,1988     **The Royal Marsden Manual of Cancer Nursing Procedures** Sara Lister,Lisa Dougherty,Louise McNamara,2018-11-20 The Royal Marsden is the world s first hospital dedicated to cancer diagnosis treatment research and education a centre of excellence with an international reputation for ground breaking research and

pioneering the very latest in cancer treatments and technologies as well as specialising in cancer diagnosis and education This companion volume to the internationally successful The Royal Marsden Manual of Clinical Nursing Procedures is designed to support practitioners who work specifically with oncology patients by providing detailed evidence based procedures and rationale and problem solving guidance on all aspects of oncology nursing The Royal Marsden Manual of Cancer Nursing Procedures Is organized and structured to represent the needs of the patient along their care pathway Provides the latest evidence underpinning all procedures Includes information on haematological procedures pain assessment and management wound care oncological emergencies and end of life care Gives detailed guidelines on supporting patients living with cancer with practical information on such things as benefits exercise and nutrition The Royal Marsden Manual of Cancer Nursing Procedures is an invaluable definitive resource for all those involved in the provision of cancer care and support to patients and their families *Intercultural Dramatherapy* Ditty Dokter,Nisha Sajnani,2022-12-29 The first overarching work on dramatherapy intercultural practice and research this book explores the therapeutic encounter between therapists and participants as an intercultural space highlighting how attending to cultural differences informs care Drawing on international voices of practitioners and participants each chapter seeks to explore how social and political struggles such as rising global conservatism nationalism climate crisis increasing displacement and the coronavirus pandemic are experienced in dramatherapy Main themes covered include the development of intercultural good practice guidelines therapist transparency especially through self disclosure and transference issues for the therapist and the negotiation of power relationships across identity differences The book concludes with a section on recommendations for training supervision and practice A resource from which new practice and research can emerge this book will be valuable to dramatherapy educators practitioners and students specifically those interested in intercultural practice **Resources in Education** ,1998 *Nuclear Regulatory Commission Issuances* U.S. Nuclear Regulatory Commission,2015 **The Higher Learning in America: The Annotated Edition** Thorstein Veblen,2015-06 Veblen s insights into the American university system at the outset of the twentieth century are as provocative today as they were when first published Insisting that institutions of higher learning should be dedicated solely to the disinterested pursuit of knowledge he urged American universities to abandon commitments to extraneous pursuits such as athletics community service and vocational education He also believed that the corporate model of governance with university boards of trustees dominated by well to do businessmen and university presidents who functioned essentially as businessmen in academic dress mandated unsavory techniques of salesmanship and self promotion that threatened to reduce institutions of higher learning to the status of competitive business enterprises Publisher s Web site *Festschrift in Honour of Kathy Charmaz* Antony Bryant,Adele E. Clarke,2022-11-14 This Festschrift to honour Kathy Charmaz s scholarship features fourteen chapters plus an editors introduction exploring CGT extensively examining topics including Indigenization of the method its approaches to

decolonizing research uses of CGT in social justice research and the legacies of Kathy Charmaz's remarkable mentorship

**Bioethics** Helga Kuhse, Udo Schüklenk, Peter Singer, 2015-12-21 Now fully revised and updated Bioethics An Anthology 3rd edition contains a wealth of new material reflecting the latest developments This definitive text brings together writings on an unparalleled range of key ethical issues compellingly presented by internationally renowned scholars The latest edition of this definitive one volume collection now updated to reflect the latest developments in the field Includes several new additions including important historical readings and new contemporary material published since the release of the last edition in 2006 Thematically organized around an unparalleled range of issues including discussion of the moral status of embryos and fetuses new genetics neuroethics life and death resource allocation organ donations public health AIDS human and animal experimentation genetic screening and issues facing nurses Subjects are clearly and captivatingly discussed by globally distinguished bioethicists A detailed index allows the reader to find terms and topics not listed in the titles of the essays themselves



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