

#### LIFE SCIENCES GRADE 12

#### PRACTICAL TASK TERM 1 2023

**DURATION: 45 Minutes** 

DNA:	THE	CODE	OF	LIF	E

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		
	$\overline{}$		

## QUESTION 1

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The US National Climate Assessment Katharine Jacobs, Susanne Moser, James Buizer, 2016-08-09 This book offers valuable climate policy and climate assessment lessons depicting what it takes to build a sustained climate assessment process It explores the third U S National Climate Assessment NCA3 report as compared with previous US national climate assessments from both a process and content perspective The U S Global Change Research Program is required by law to produce a National Climate Assessment report every four years and these reports provide a comprehensive evaluation of climate science as well as observed and projected climate impacts on a variety of sectors As the book describes a key contribution of the NCA3 approach is a far more deliberate interdisciplinary process as well as an engagement strategy that brought hundreds of public and private sector stakeholders into the assessment community Among its most important conceptual contributions was an explicit focus on building the infrastructure to conduct better assessments over time and an experimental approach to analysis of the impacts of climate on cross sectoral systems and inter locking and cascading effects across sectors Readers may explore innovations such as the development of regional climatologies and projections for every region of the US as well as the development of the Global Change Information System The book also highlights the need for decision makers to be part of the assessment process in order for assessment findings to be truly useful from a decision maker's perspective Many lessons have been learned by the NCA3 authors that can be useful in future assessments and adaptation processes both within the US and internationally This book passes on such lessons and includes an evaluation of the role of state climate assessments in ongoing national assessment processes 100 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 100 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 Biological Economies Richard Le Heron, Hugh Campbell, Nick to apply for any position in the Oil and Gas Industry Lewis, Michael Carolan, 2016-01-22 Recent agri food studies including commodity systems the political economy of agriculture regional development and wider examinations of the rural dimension in economic geography and rural sociology have been confronted by three challenges These can be summarized as more than human approaches to economic life a post structural political economy of food and agriculture and calls for more enactive performative research approaches This volume describes the genealogy of such approaches drawing on the reflective insights of more than five years of international

engagement and research It demonstrates the kinds of new work being generated under these approaches and provides a means for exploring how they should be all understood as part of the same broader need to review theory and methods in the study of food agriculture rural development and economic geography This radical collective approach is elaborated as the Biological Economies approach The authors break out from traditional categories of analysis reconceptualising materialities and reframing economic assemblages as biological economies based on the notion of all research being enactive or Offshore Oil & Gas Platforms JOB INTERVIEW Petrogav International Oil & Gas Training Center, 2020-07-01 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 279 questions and answers for job interview and as a BONUS web addresses to 273 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 **CTET and TET Social** Science and Pedagogy for Class 6 to 8 for 2021 Exams Arihant Experts, 2021-05-26 1 The book Social Science History Geography Civics and Pedagogy giving Chapterwise coverage to the syllabus 4 Previous Years Solved Papers and 5 Practice sets are designed exactly on the latest pattern of the examination 5 More than 1500 MCQs for thorough for practice 6 Useful for CTET UPTET HTET UTET CGTET and all other states TETs Robert Stenberg once said There is no Recipe to be a Great Teacher that s what is unique about them CTET provides you with an opportunity to make a mark as an educator while teaching in Central Government School Prepare yourself for the exam with current edition of Social Science and Pedagogy Paper II that has been developed based on the prescribed syllabus of CTET and other State TETs related examination The book has been categorized under 4 Sections History Geography Civics Pedagogy giving clear understanding of the concepts in Chapterwise manner Each chapter is supplied with enough theories illustrations and examples With more than 1500 MCQs help candidates for the quick of the chapters Practice part has been equally paid attention by providing Previous Years Questions asked in CTET TET Practice Questions in every chapter along with the 5 Practice Sets exactly based on the latest pattern of the Examination Also Latest Solved Paper is given to know the exact Trend and Pattern of the paper Housed with ample number of questions for practice it gives robust study material useful for CTET UPTET HTET UTET CGTET and all other states TETs TOC Solved Paper I II 2021 January Solved Paper I 2019 December Solved Paper II 2019 December Solved Paper 2019 July Solved Paper 2018 December History Geography Civics PedagogyPractice Sets 1 5 **IOB INTERVIEW** Offshore Oil & Gas Platforms Petrogav International Oil & Gas Training Center, 2020-07-01 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

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introduction to human behaviour in the context of health and illness includes three new chapters many new contributors and a new co editor It is arranged in nine sections to cover the core concepts of psychology and sociology as they apply to medicine The life cycle Development of the person Society and health Preventing illness and promoting health Illness behaviour and the doctor patient encounter Illness and disability Coping with illness and disability Hoe do health services work How do you fit into all this Topics presented as self contained double page spreads Cases throughout to reinforce understanding of important concepts Boxes and discussion points throughout The authors comprise psychologists sociologists and doctors Highly illustrated 48 new contributors New co editor Gerry Humphris 3 new chapters Malnutrition and obesity Urban nature health and well being LGBT Health Challenges of the Modern Economy Yakhya G. Buchaev, Arsen S. Abdulkadyrov, Julia V. Ragulina, Arutyun A. Khachaturyan, Elena G. Popkova, 2023-07-03 The book focuses on a systemic study of the challenges of the modern economy and related problems and areas of sustainable development of countries regions and businesses with particular attention paid to the new prospects offered by the spread of digital technology The book s contribution to the literature is that it reveals the specifics and digital perspectives of supporting the SDGs in the economy at every level of the economy country regional and corporate considering sectoral specificities this is reflected in six parts of the book Part 1 identifies contemporary challenges of the modern economy as barriers to sustainable development Part 2 reflects the future direction of sustainable development of the countries Part 3 considers the problems and prospects for sustainable development of regions Part 4 focuses on the problems and prospects for the sustainable development of enterprises and industries Part 5 sheds light on the economic and legal foundations and cooperative mechanisms of sustainable development Part 6 offers recommendations for enhancing the use of digital technologies offered by Industry 4 0 to support the SDGs Scientists whose research interests include sustainable economic development are the primary target audience for this book For the primary target audience the book forms a systemic view of the global challenges of sustainable development and offers a set of scientific and methodological recommendations to provide an effective response to these challenges at every level of the economy An additional audience for the book is practicing experts who will find international best practices and applied recommendations to support sustainable economic development and implementation of the SDGs in the practice of state national regulation and public administration of the region and corporate Phytoremediation Abid A. Ansari, Sarvajeet Singh Gill, Ritu Gill, Guy R. Lanza, Lee in various industries management Newman, 2017-03-29 This text details the plant assisted remediation method phytoremediation which involves the interaction of plant roots and associated rhizospheric microorganisms for the remediation of soil contaminated with high levels of metals pesticides solvents radionuclides explosives crude oil organic compounds and various other contaminants Many chapters highlight and compare the efficiency and economic advantages of phytoremediation to currently practiced soil and water treatment practices Volume 5 of Phytoremediation Management of Environmental Contaminants provides the capstone of the series Taken together the five volumes provide a broad based global synopsis of the current applications of phytoremediation using plants and the microbial communities associated with their roots to decontaminate terrestrial and aquatic ecosystems

International Business, International Adaptation Shad Morris, James Oldroyd, 2023 With the incisive and comprehensive exploration of international business in the modern world in this edition of International Business an accomplished team of educators and business practitioners delivers a revitalized approach to the discipline that brings international business to life This edition of the book includes one of a kind chapters on sustainability poverty and innovation as well as explorations of the COVID 19 pandemic and its effects on commerce the business implications of social and civic justice race and inequality debates and new case studies including one on equity diversity and inclusion at Microsoft The book efficiently prepares students for the global economy and transforms the authors impressive international experience at multinational corporations into an indispensable pedagogical resource This international adaptation further strengthens the bond between the readers and the contemporary world of international business through the introduction of new case studies caselets illustrations and exhibits related to India Australia bilateral trade association solar mamas of Sudan evolution of Islamic banking in Tanzania McDonald's kosher menu in Israel and so on It takes us through the emerging factors affecting the international business such as digital transformation and global supply chain strategies post COVID 19 Critical thinking questions added at the end of each chapter will encourage the students to think analytically and delve deeper into the topic

Poetry for historians Carolyn Steedman, 2018-04-13 This is a book about the conflict between history and poetry and historians and poets in Atlantic World society from the end of the seventeenth century to the present day Blending historiography and theory it proceeds by asking what is the point of poetry as far as historians are concerned The focus is on W H Auden's Cold War era history poems but the book also looks at other poets from the seventeenth century onwards providing original accounts of their poetic and historical educations An important resource for those teaching undergraduate and postgraduate courses in historiography and history and theory Poetry for historians will also be of relevance to courses on literature in society and the history of education General readers will relate it to Steedman's Landscape for a Good Woman 1987 and Dust 2001 on account of its biographical and autobiographical insights into the way history operates in Climate Change Adaptation in Pacific Countries Walter Leal Filho, 2017-02-07 This book showcases modern society vital lessons learned from research field projects and best practice examples with regard to climate change adaptation in countries throughout the Pacific region a part of the planet that is particularly vulnerable to and affected by climate change The book s primary goals are to document the wealth of experiences in the region available today to encourage cross sector interactions among the various stakeholders in the region and to help transfer results to other countries and regions Accordingly it gathers a set of papers presented at a symposium on climate change adaptation held in Fiji in July 2016 focusing on Fostering Resilience and Improving the Quality of Life In these contributions local and international experts

present a variety of initiatives showing how Pacific countries are coping with the many problems associated with climate change including initiatives in education and awareness work taking place across the region operational aspects and their Communicating Linguistics Hazel Price, Dan implications for policy making and challenges in urban and rural areas McIntyre, 2023-01-19 Increasingly academics are called upon to demonstrate the value of linguistics and explain their research to the wider public In support of this agenda Communicating Linguistics Language Community and Public Engagement provides an overview of the wide range of public engagement activities currently being undertaken in linguistics as well as practically focused advice aimed at helping linguists to do public engagement well From podcasts to popular writing from competitions to consultancy from language creation to community projects there are many ways in which linguists can share their research with the public Bringing together insights from leading linguists working in academia as well as non university professions this unique collection Provides a forum for the discussion of challenges and opportunities of public engagement in linguistics in order to shape best practice Documents best practice through a summary of some of the many excellent public engagement projects currently taking place internationally Celebrates the long tradition of public engagement in linguistics a discipline which is often misunderstood despite its direct and fundamental importance to everyday life Breaking down long standing divisions between universities and the wider community this book will be of significant value to academics in linguistics but also teachers policy makers and anyone interested in better understanding the nature and use of language in society Creative Commons Attribution Non Commercial No Derivatives 4 0 license

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the typical setup using the complete Quanser solution. It is assumed that the ROTPEN is being used along with an SRV02, UPM and Q8 ... SRV02 Gyroscope User Manual The Quanser SRV02 and gyroscope system provides a great platform to study gyroscope properties along with control experiments that resemble real-life ... Rotary Servo Base Unit The Rotary Servo Base Unit is the fundamental element of the Quanser Rotary Control family. It is ideally suited to introduce basic control concepts and ... Control Systems Lab Solutions Quansers lab equipment for control systems are precise, robust, open architecture solutions for a wide range of teaching and research applications.