

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.

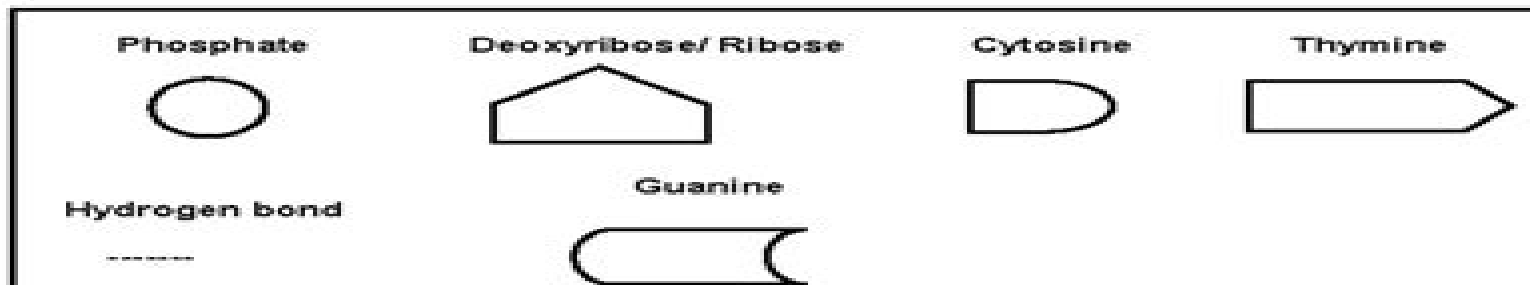
BACKGROUND INFORMATION

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

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Arihant Experts



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CTET Success Master Maths & Science Paper-2 for Class 6 to 8 2020 Arihant Experts,2020-01-02 Throughout the world teaching is looked at as one of the most respected and noble profession a person could have A great teacher not only shows the right path that a student should follow but also prepares the human resources for the further development of the nation Among various exams CTET is the most popular teaching exam in the country Central Teaching Eligibility Test CTET is a national level test conducted by CBSE twice a year to recruit the eligible candidates as teacher The exam is conducted into 2 papers Paper 1 for class 1 5 and Paper 2 for class 6 8 Any candidate who is interested to become a teacher for classes 6 to 8 then they have to appear for both the papers The new the edition of Study Guide Success Master CTET Mathematics and Science Paper II has been prepared completely on the latest exam pattern The book has been divided into 5 key sections and further divided into chapters providing the focused study material After covering theoretical part this book also concentrates on the practice part it provides Previous Years Solved Paper 2 practice sets and more than 3000 MCQs for thorough practice Ample numbers of questions have been given which are covered in a Chapterwise manner that allows candidates to understand the trend of the questions as well as the exam This book will prove to be highly useful for the CTET Paper 2 exam as it will help in achieving the good rank in the exam

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Science and Pedagogy

Practice Sets 1 2 Practical Peer-to-Peer Teaching and Learning on the Social Web Hai-Jew, Shalin,2021-11-19 On the Social Web people share their enthusiasms and expertise on almost every topic and based on this learners can find resources created by individuals with varying expertise Through this trend and the wide availability of video cameras and authoring tools people are creating DIY resources and sharing their knowledge skills and abilities broadly While these resources are increasing in availability what has not been explored is the effectiveness of these resources peer to peer teaching and learning and how well this content prepares learners for professional roles

Practical Peer to Peer Teaching and Learning on the Social Web explores the efficacies of online teaching and learning with materials by peers and provides insights into what is made available for teaching and learning by the broad public It also considers intended and unintended outcomes of open shared learning online and discusses practical ethics in teaching and learning online Covering topics such as learner roles and instructional design it is ideal for teachers instructional designers and developers software developers user interface designers researchers academicians and students

The Changing World of Outdoor Learning in Europe Peter Becker,Barbara Humberstone,Chris Loynes,Jochem Schirp,2018-06-12 The Changing World of Outdoor Learning in Europe sets out to provide a comprehensive analysis of the economical and political changes that have occurred in European outdoor culture in the preceding two decades from a diverse range of perspectives including institutional theoretical national and

educational views The book looks at how outdoor education has been transformed into an increasingly global field where established and influenced practices have been introduced into modernising and democratising nations With contributions from the members of the board of the European Institute of Outdoor Adventure Education and Experiential Learning and representatives of the networks that stand behind it this unique book provides thorough factual analyses and examinations of outdoor learning that have never been presented before The book contains contributions from across Europe with authors from the UK Germany Finland Sweden Slovenia Poland Norway and the Czech Republic Chapters within the volume by non European authors provide another perspective on the European story in a wider context As a whole the book will stimulate the ongoing debate about the nature function and organisation of outdoor education around the globe The Changing World of Outdoor Learning in Europe will be of great interest to academics researchers and postgraduate students in the fields of outdoor education leadership and recreation and outdoor sport environmental and leisure studies It should also be essential reading for those involved in outdoor organisations in Europe and worldwide

Digital Technologies and Applications

Saad Motahhir,Badre Bossoufi,2023-04-27 This book presents volume 2 of selected research papers presented at the Second International Conference on Digital Technologies and Applications ICDTA 23 This book highlights the latest innovations in digital technologies as artificial intelligence Internet of Things embedded systems network technology digital transformation and their applications in several areas as Industry 4 0 renewable energy mechatronics digital healthcare etc The respective papers encourage and inspire researchers industry professionals and policymakers to put these methods into practice

Taking Back Philosophy Bryan W. Van Norden,2017-12-05 Are American colleges and universities failing their students by refusing to teach the philosophical traditions of China India Africa and other non Western cultures This biting and provocative critique of American higher education says yes Even though we live in an increasingly multicultural world most philosophy departments stubbornly insist that only Western philosophy is real philosophy and denigrate everything outside the European canon In Taking Back Philosophy Bryan W Van Norden lambastes academic philosophy for its Eurocentrism insularity and complicity with nationalism and issues a ringing call to make our educational institutions live up to their cosmopolitan ideals In a cheeky agenda setting and controversial style Van Norden an expert in Chinese philosophy proposes an inclusive multicultural approach to philosophical inquiry He showcases several accessible examples of how Western and Asian thinkers can be brought into productive dialogue demonstrating that philosophy only becomes deeper as it becomes increasingly diverse and pluralistic Taking Back Philosophy is at once a manifesto for multicultural education an accessible introduction to Confucian and Buddhist philosophy a critique of the ethnocentrism and anti intellectualism characteristic of much contemporary American politics a defense of the value of philosophy and a liberal arts education and a call to return to the search for the good life that defined philosophy for Confucius Socrates and the Buddha Building on a popular New York Times opinion piece that suggested any philosophy department that fails to teach non Western philosophy should be renamed

a Department of European and American Philosophy this book will challenge any student or scholar of philosophy to reconsider what constitutes the love of wisdom *Soil Behavior and Characterization of Geomaterials* Kasinathan Muthukkumaran,Ravi Sankar Jakka,C. R. Parthasarathy,B. Soundara,2022-11-30 This book comprises the select peer reviewed proceedings of the Indian Geotechnical Conference IGC 2021 The contents focus on Geotechnics for Infrastructure Development and Innovative Applications The book covers topics related to soil behavior and characterization of geomaterials geotechnical geological and geophysical investigation of special topics such as behavior of unsaturated soils offshore and marine geotechnics remote sensing and GIS instrumentation and monitoring retrofitting of geotechnical structures reliability in geotechnical engineering geotechnical education codes and standards among others This volume will be of interest to those in academia and industry *Child and Adolescent Development for Educators* Christi Crosby Bergin,David Allen Bergin,Sue Walker,Graham Daniel,Angela Fenton,Pearl Subban,2018-09-01 Child and Adolescent Development for Educators covers development from early childhood through high school This text provides authentic research based strategies and guidelines for the classroom helping future teachers to create an environment that promotes optimal development in children The authors apply child development concepts to topics of high interest and relevance to teachers including classroom discipline constructivism social emotional development and many others Child and Adolescent Development for Educators combines the core theory with practical implications for educational contexts and shows how child development links to the Australian Professional Standards for Graduate Teachers Case studies and real world vignettes further bridge the distance between research and the classroom Along with strong coverage of key local research such as the Longitudinal Study of Australian Children and Longitudinal Study of Indigenous children **Intelligent Systems and Sustainable Computational Models** Rajganesh Nagarajan,Senthil Kumar Narayanasamy,Ramkumar Thirunavukarasu,Pethuru Raj,2024-06-03 The fields of intelligent systems and sustainability have been gaining momentum in the research community They have drawn interest in such research fields as computer science information technology electrical engineering and other associated engineering disciplines The promise of intelligent systems applied to sustainability is becoming a reality due to the recent advancements in the Internet of Things IoT Artificial Intelligence Big Data blockchain deep learning and machine learning The emergence of intelligent systems has given rise to a wide range of techniques and algorithms using an ensemble approach to implement novel solutions for complex problems associated with sustainability Intelligent Systems and Sustainable Computational Models Concepts Architecture and Practical Applications explores this ensemble approach towards building a sustainable future It explores novel solutions for such pressing problems as smart healthcare ecosystems energy efficient distributed computing affordable renewable resources mitigating financial risks monitoring environmental degradation and balancing climate conditions The book helps researchers to apply intelligent systems to computational sustainability models to propose efficient methods techniques and tools The book covers such areas

as Intelligent and adaptive computing for sustainable energy water and transportation networks Blockchain for decentralized systems for sustainable applications systems and infrastructure IoT for sustainable critical infrastructure Explainable AI XAI and decision making models for computational sustainability Sustainable development using edge computing fog computing and cloud computing Cognitive intelligent systems for e learning Artificial Intelligence and machine learning for large scale data Green computing and cyber physical systems Real time applications in healthcare agriculture smart cities and smart governance By examining how intelligent systems can build a sustainable society the book presents systems solutions that can benefit researchers and professionals in such fields as information technology health energy agricultural manufacturing and environmental protection

Arctic Mineral Resources Sergey V. Krivovichev, 2019-04-23 The Arctic zone of the Earth is a major source of mineral and other natural resources for the future development of science and technology It contains a large supply of strategic mineral deposits including rare earths copper phosphorus niobium platinum group elements and other critical metals The continued melting of the sea ice due to climate change makes these resources more accessible than ever before However the mineral exploration in the Arctic has always been a challenge due to the climatic restrictions remote location and vulnerability of Arctic ecosystems This book covers a broad range of topics related to the problem of Arctic mineral resources including geological geochemical and mineralogical aspects of their occurrence and formation chemical technologies and environmental and economic problems related to mineral exploration The contributions can be tentatively classified into four major types geodynamics and metallogeny mineralogy and petrology mineralogy and crystallography and mining and chemical technologies associated with the exploration of mineral deposits and the use of raw materials for manufacturing new products The book can be of interest for all those interested in Arctic issues and especially in Arctic mineral resources and associated problems of mineralogy geology geochemistry and technology

Human-Computer Interaction. Human Values and Quality of Life Masaaki Kurosu, 2020-07-10 The three volume set LNCS 12181 12182 and 12183 constitutes the refereed proceedings of the Human Computer Interaction thematic area of the 22nd International Conference on Human Computer Interaction HCII 2020 which took place in Copenhagen Denmark in July 2020 A total of 1439 papers and 238 posters have been accepted for publication in the HCII 2020 proceedings from a total of 6326 submissions The 145 papers included in these HCI 2020 proceedings were organized in topical sections as follows Part I design theory methods and practice in HCI understanding users usability user experience and quality and images visualization and aesthetics in HCI Part II gesture based interaction speech voice conversation and emotions multimodal interaction and human robot interaction Part III HCI for well being and Eudaimonia learning culture and creativity human values ethics transparency and trust and HCI in complex environments The conference was held virtually due to the COVID 19 pandemic

Positive Educational Approaches to Teaching Effectiveness and Student Well-being Hans Henrik Knoop, Mirna Nel, Sufen Chen, Rebecca Shankland, Llewellyn Ellardus Van Zyl, Matthew Cole, 2022-11-08 **Advanced**

Intelligent Computing Technology and Applications De-Shuang Huang, Qinhu Zhang, Chuanlei Zhang, Wei Chen, 2025-07-14 The 12 volume set CCIS 2564 2575 together with the 28 volume set LNCS LNAI LNBI 15842 15869 constitutes the refereed proceedings of the 21st International Conference on Intelligent Computing ICIC 2025 held in Ningbo China during July 26 29 2025 The 523 papers presented in these proceedings books were carefully reviewed and selected from 4032 submissions This year the conference concentrated mainly on the theories and methodologies as well as the emerging applications of intelligent computing Its aim was to unify the picture of contemporary intelligent computing techniques as an integral concept that highlights the trends in advanced computational intelligence and bridges theoretical research with applications Therefore the theme for this conference was Advanced Intelligent Computing Technology and Applications *Environment Abstracts Annual 1988* Bowker Editorial Staff, R R Bowker Publishing, Bowker, 1989-04

Trans Rogers Brubaker, 2023-04-06 2015 kurz nachdem sich Caitlyn Jenner zu ihrer Identität als Transgender bekannt hatte wurde Rachel Dolezal Präsidentin einer Ortsgruppe der National Association for the Advancement of Colored People NAACP durch ihre Eltern als weiss geoutet Darauf entbrannte in den Medien eine Debatte über die Fluidität von gender und race Wenn Jenner sich rechtmässig als Frau identifizieren konnte konnte sich Dolezal nicht ebenso als schwarz identifizieren Obwohl sex im Unterschied zu race eine biologische Fundierung hat findet die Wahl bzw. Änderung von sex oder gender paradoxerweise eine grossere Akzeptanz als die Wahl oder Änderung der race Während Dolezals Behauptung sie sei schwarz von wenigen akzeptiert wurde verstärkt sich die Fluidität von Race Identitäten in der Masse wie die Abstammung zunehmend als gemischt verstanden ihre Vorherrschaft über Identität verliert und race und ethnicity wie auch gender als etwas gesehen werden was wir tun und nicht als etwas was wir haben Indem er race und ethnicity durch die Linse der Transgender Erfahrung neu betrachtet nicht nur als eine Bewegung von einer Kategorie zur anderen sondern auch als Position zwischen und jenseits von bestehenden Kategorien unterstreicht Brubaker die Formbarkeit Kontingenz und Beliebigkeit der Kategorien von race Ausgehend von der kontroversen Koppelung von transgender und transracial zeigt Rogers Brubaker wie gender und race die während langer Zeit als stabil angeboren und unzweideutig verstanden werden in den letzten Jahrzehnten auf unterschiedliche Art und in unterschiedlichem Ausmass als wandelbar und einer Wahl zugänglich betrachtet werden Transgender Identitäten haben sich in schwindelerregendem Tempo von der Peripherie in den Mainstream bewegt und Grenzen der Ethnizität und der race wurden unscharf *Equitable Literacy Instruction for Students in Poverty* Doris Walker-Dalhouse, Victoria J. Risko, Differences in performance between students of poverty and more advantaged students are reflective of an opportunity gap as opposed to a gap in student ability This book argues that significant attention must be given to eliminating the barriers that produce educational inequities in student achievement Walker Dalhouse and Risko focus on disparities in literacy achievement that might be attributed to color blind practices deficit mindsets low expectations or context neutral practices Situating literacy learning within a comprehensive view of literacy development they provide a

set of instructional practices that will best support students living in poverty Specifically vignettes from kindergarten through middle school classrooms are used to demonstrate practices that address critical areas of the reading process are responsive to students racial ethnic cultural gender and linguistic histories and assets attend to students strengths and needs and go beyond the impact of short term testing to support optimal and sustainable learning Educators and school leaders can use this resource to transform schools into nurturing and vibrant communities that are committed to change equity and diversity

Book Features Provides recommendations and detailed guidance for enacting literacy instruction that will close opportunity gaps for students living in poverty Includes vignettes from leading literacy educators and researchers that demonstrate high quality literacy instruction implemented in K 8 classrooms Presents instruction that is responsive to differences and honors the languages literacies and cultural resources that students bring to their learning Offers specific recommendations and practices that can guide advocacy for change The authors correct the deficit misperceptions by showing how students experiencing poverty are the targets not the causes of educational disparities What a different world schools would be if we each embraced these lessons From the Afterword by Paul C Gorski founder Equity Literacy Institute Development and Education Studies Prof. Dr. Hatice BEKİR,Phd. Vedat BAYRAKTAR,Ress. Asst. Şerife Nur KARAÇELİK,2020-11-08 Early math skills are crucial to children s math and school success in the following years The use of storybooks as a mathematics learning method has been discussed frequently in recent years Shared book reading allows different mathematical conversations to pass between parent or teacher and child NCTM 1989 promotes the using of mathematics storybooks as a way of introducing mathematical ideas to children as it offers a meaningful context for teaching mathematics concepts to children Shared book reading improves children s problem solving skills allows for an exchange of ideas establishes logical and may prompt discussion of abstract concepts This chapter reviews how children learn mathematics and research on the use of storybooks for mathematics skill development It concludes with examples of how explicit and implicit storybooks in either paper or digital versions may be used Keywords Storybooks mathematics children s learning of mathematics children s development *Modern Technologies Enabling Safe and Secure UAV Operation in Urban Airspace* Sundararaja Sitharama Iyengar,Amine Bendarma,Maciej Klósak,2021-07-15 The use of Unmanned Aerial Vehicles UAVs or drones continues to increase and keeping up to date with technological legal and commercial developments related to this domain is important particularly with regard to safety and security in regional and border security operations This book presents edited contributions from the NATO Advanced Training Course ATC entitled Modern technologies enabling safe and secure UAV operation in urban airspace held in Agadir Morocco from 25 to 30 November 2019 Participants included experienced scientists and industry engineers involved in UAV development and activity and the aim of the ATC was to increase awareness among all NATO and partner countries of the safety and security challenges raised by UAV flights in urban airspace as well as sharing the knowledge and expertise of specialists working to advance the technologies and capabilities

that will enhance safety and security across NATO and its partner countries The ATC began with a presentation about current UAV technologies and the technological features that might present a threat to the safety of commercial or military airspace applications Other topics covered included the U space concept management of UAV operations in controlled airspace integration of manned and unmanned aviation testing and certification of UAVs autonomous UAV flights application of UAVs in urban airspace and BVLOS flights and sensors for UAV navigation and communication The book will be of interest to all those working with UAVs or seeking to develop and encourage their use particularly for security purposes

Disinfection and Decontamination Jeanne Moldenhauer, 2018-11-20 This book describes various methods of decontamination and how the methods work There is a discussion of the various cleaning and disinfection methods utilized along with details of how to qualify these methods It also describes new technologies that may be useful in the battle for decontamination across industries Finally this book provides a single resource on how one can address contamination issues for a variety of manufacturing processes and industries Explores new technologies that may be useful in the battle for decontamination Examines various methods of decontamination and how the methods work Addresses contamination issues for a variety of manufacturing processes and industries Describes how to detect contaminants as well as how to deal with contaminants that are present Includes methods for both decontamination reaction and preventing contamination proactive

Inclusive Education at the Crossroads Philippa Gordon-Gould, Garry Hornby, 2023-03-09 Inclusive Education at the Crossroads explores the short and long term effectiveness of government plans to reform policy for special needs education confronting difficult questions on policies about inclusion and suggesting alternative ways forward for achieving more effective education of children with special educational needs and disabilities SEND Inclusion has been a central concern for education systems globally for over three decades However has preoccupation with inclusion been at the expense of effective education for children with SEND Where do policies for inclusion lead and do they amount to the special education reform that is needed What do the worldwide experiences of inclusion and special education reveal about how to improve the quality of education systems for all children in the future How effective is provision for children with SEND today Through this informative and topical book Gordon Gould and Hornby shine an interrogating spotlight on current provision for SEND and ask if current legislation and policy inadvertently reinforce problems if they cause many children with SEND to fall short of their potential as well as preventing many schools from improving their levels of overall academic attainment Inclusive Education at the Crossroads provides theory and research for teachers school leaders governors policy makers researchers parents post graduate students and anyone seeking practical solutions to meeting the needs of pupils with SEND in any global context It will encourage open debate about the essence of educational inclusion in order to stimulate creative thinking among all stakeholders

Metal Treatment and Drop Forging ,1961

Decoding **Life Sciences Practical 1 Grade 12 16 February 2015**: Revealing the Captivating Potential of Verbal Expression

In an era characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its ability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Life Sciences Practical 1 Grade 12 16 February 2015**," a mesmerizing literary creation penned with a celebrated wordsmith, readers set about an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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