

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.

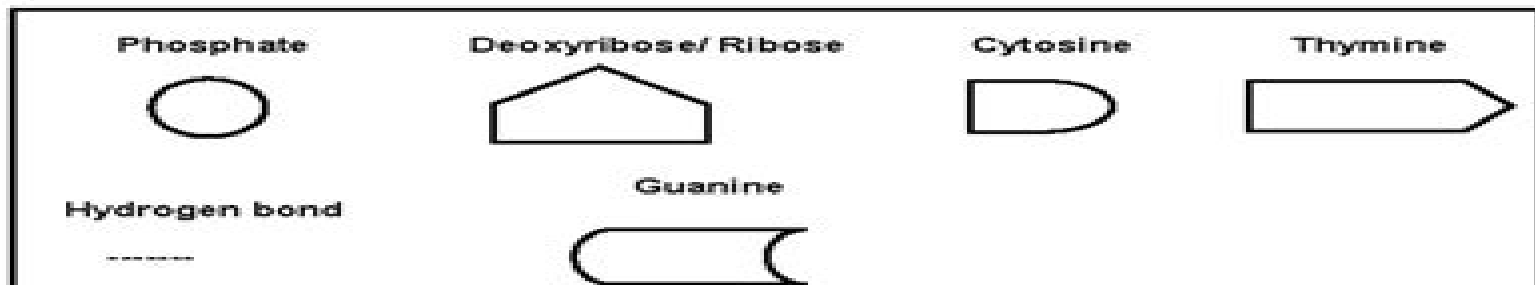
BACKGROUND INFORMATION

There are two types of nucleic acids in all living organisms – DNA (deoxynucleic 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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**Eric L. Chang, Paul D. Brown, Simon S.
Lo, Arjun Sahgal, John H. Suh**



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POGIL Shawn R. Simonson, 2023-07-03 Process Oriented Guided Inquiry Learning POGIL is a pedagogy that is based on research on how people learn and has been shown to lead to better student outcomes in many contexts and in a variety of academic disciplines Beyond facilitating students mastery of a discipline it promotes vital educational outcomes such as communication skills and critical thinking Its active international community of practitioners provides accessible educational development and support for anyone developing related courses Having started as a process developed by a group of chemistry professors focused on helping their students better grasp the concepts of general chemistry The POGIL Project has grown into a dynamic organization of committed instructors who help each other transform classrooms and improve student success develop curricular materials to assist this process conduct research expanding what is known about learning and teaching and provide professional development and collegiality from elementary teachers to college professors As a pedagogy it has been shown to be effective in a variety of content areas and at different educational levels This is an introduction to the process and the community Every POGIL classroom is different and is a reflection of the uniqueness of the particular context the institution department physical space student body and instructor but follows a common structure in which students work cooperatively in self managed small groups of three or four The group work is focused on activities that are carefully designed and scaffolded to enable students to develop important concepts or to deepen and refine their understanding of those ideas or concepts for themselves based entirely on data provided in class not on prior reading of the textbook or other introduction to the topic The learning environment is structured to support the development of process skills such as teamwork effective communication information processing problem solving and critical thinking The instructor s role is to facilitate the development of student concepts and process skills not to simply deliver content to the students The first part of this book introduces the theoretical and philosophical foundations of POGIL pedagogy and summarizes the literature demonstrating its efficacy The second part of the book focusses on implementing POGIL covering the formation and effective management of student teams offering guidance on the selection and writing of POGIL activities as well as on facilitation teaching large classes and assessment The book concludes with examples of implementation in STEM and non STEM disciplines as well as guidance on how to get started Appendices provide additional resources and information about The POGIL Project

JCERT Exam Scorer Science Class 12 Jharkhand Board SBPD Editorial Boards, 2023-10-29 HINDI Core HINDI Elective ENGLISH Core ENGLISH Elective ECONOMICS PHYSICS CHEMISTRY BIOLOGY MATHEMATICS COMPUTER SCIENCE Board Question Papers JAC 2023 Of All Subjects *Assistance Robotics and Biosensors* Fernando Torres, Santiago Puente, Andrés Ubeda, 2018-11-29 This book is a printed edition of the Special Issue Assistance Robotics and Biosensors that was published in Sensors

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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ECRM2015-Proceedings of the 14th European Conference on Research Methods 2015 Dr Vincent Cassar, Dr Frank Bezzina, 2015-06-01 Complete proceedings of the 14th European Conference on Research Methodology for Business and Management Studies Valetta Malta Published by Academic Conferences and Publishing International

ECIE2015-10th European Conference on Innovation and Entrepreneurship Renata Paola Dameri, Roberto Garelli and Marina Resta, 2015-08-24 These proceedings represent the work of contributors to the 10th European Conference on Innovation and Entrepreneurship ECIE 2015 hosted this year by The University of Genoa Italy on the 17 18 September 2015 The Conference Chair is Prof Luca Beltrametti and the Programme Co chairs are Prof Renata Paola Dameri Prof Roberto Garelli and Prof Marina Resta all from the University of Genoa ECIE continues to develop and evolve Now in its 10th year the key aim remains the opportunity for participants to share ideas and meet the people who hold them The scope of papers will ensure an interesting two days The subjects covered illustrate the wide range of topics that fall into this important and growing area of research The opening keynote presentation is given by Marco Doria Mayor of Genoa on the topic of Innovation and entrepreneurship in Genoa past present and future A second keynote will be given by Flavia Marzano from the National board for innovation and Italian digital agenda on the topic of Innovation New visions not just new technologies The second day Keynote will be given by Roberto Santoro President of the European Society of Concurrent Engineering Network ESoCE Net on the topic of People Olympics for healthy and active living A people driven social innovation platform In addition to the main themes of the conference there are a number of specialist mini tracks on topics including Innovation and strategy Entrepreneurship education in action The theory and practice of collaboration in

entrepreneurship and Challenges for entrepreneurship and innovation in the 21st Century With an initial submission of 275 abstracts after the double blind peer review process there are 88 Academic research papers 6 PhD research papers 1 Masters Research paper 4 work in progress papers and 1 Non academic paper published in these Conference Proceedings These papers represent research from Australia Brazil Bulgaria Colombia Croatia Cyprus Czech Republic Denmark Egypt Finland France Germany Ghana Greece Hungary India Iran Ireland Israel Italy Japan Kazakhstan Kuwait Lithuania Malaysia Mexico Netherlands New Zealand Nigeria Norway Poland Portugal Romania Romania Russia Russian Federation Saudi Arabia South Africa Spain Sweden Thailand Thailand UK and USA

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 Pedagogy Practice Sets 1 5

Personalized Medicine and Neurosurgery M. Yashar S. Kalani, Nicholas Theodore, 2017-11-22 The Precision Medicine Initiative which was instituted by President Barack Obama on January 20 2015 highlighted the importance that advances in genomics and related omic approaches have made to science and medicine and it set the stage for their federally funded and mandated integration into the delivery of health care Whether these advances comprise large scale approaches such as The Cancer Genome Atlas which provides a modern classification of cancers based on molecular profiles or genealogy initiatives which seek to trace the movement of our early ancestors out of Africa genomic technology has taken us closer to developing targeted therapies and a refined understanding of our evolutionary journey It is against this backdrop that we summarized some of the recent advances in the field of precision medicine or personalized medicine as they pertain to neurosurgery In this e Book collection provided by Frontiers

in Surgery Neurosurgery we present a collection of articles by leaders in the field of neurosurgery that highlight domains using a personalized approach for the treatment of patients or avenues when personalization is possible and when it will likely alter the care of patients with neurological diseases

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Disha Experts, 2024-10-22 The First edition of the book 22 TOPIC WISE CTET Paper 2 Mathematics Science Solved Papers 2024 2011 English Edition contains detailed Solutions to the Past 22 Solved Papers of the CTET exam from 2011 to 2024 The past 22 CTET Solved papers included are June 2011 Jan Section II mathematics has 15 Topics Section III Science has 16 Topics Section IV English 11 Topics Section V Hindi has 10 Topics The detailed solutions are provided immediately after each topic Solutions are provided for each question The languages covered in the tests are English 1st language and Hindi 2nd language The book is 100% useful for UPTET HTET MPTET CGTET UKTET HPTET BTET PTET and other STET Exam

Last Years 10 Solved Papers for CBSE Class 10 (2022 Exam) - Comprehensive Handbook of 6 Subjects - Yearwise Board Solutions Oswal, 2021-06-15 Benefit from easy and quick revisions for your Class 10 CBSE Board Examinations 2022 with the help of our 10 Last Years Solved Paper consisting of 6 subjects including English Hindi A Hindi B Mathematics standard Science and Social Science Our handbook will help you study well at home How can you benefit from Oswal CBSE 10 Last Years Solved Papers for 10th Class Our Comprehensive Handbook is a one stop solution for Class 10 CBSE students study requirements and is strictly based on the latest syllabus prescribed by the Board for in depth preparation of 2022 Board Examinations 1 Includes Solved Board Papers from the past years 2014 2020 with Term I II 2 All Sets of Delhi Outside Delhi given 3 Multiple Subject Papers in one book 4 Facilitates Easy and Last Minute Revision 5 Solutions Provided in accordance with the Board Marking Scheme 6 Get accustomed with the question types and structures which allows to cultivate more efficient answering methods 7 Consists of numerous tips and tools to improve study techniques for any exam paper Students can create vision boards to establish study schedules and maintain study logs to measure their progress Our Guidebook can also help in providing a comprehensive overview of important topics in each subject making it easier for students to prepare for the exams

CTET Success Master Social Science/Studies 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 Social Science Studies 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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Exercise and Physical Activity for Older Adults Danielle R. Bouchard, 2021 This book discusses the physical benefits of exercise and physical activity when aging without major diseases making this book unique in the sense of its primary prevention focus

Introduction to Anticipation Studies Roberto Poli, 2017-08-28 This book presents the theory of anticipation and establishes anticipation of the future as a legitimate topic of research It examines anticipatory behavior i e a behavior that uses the future in its actual decisional process The book shows that anticipation violates neither the ontological order of time nor causation It explores the question of how different kinds of systems anticipate and examines the risks and uses of such anticipatory practices The book first summarizes the research on anticipation conducted within a range of different disciplines and describes the connection between the anticipatory point of view and futures studies Following that its chapters on Wholes Time and Emergence make explicit the ontological framework within which anticipation finds its place It then goes on to discuss Systems Complexity and the Modeling Relation and provides the scientific background supporting anticipation It restricts formal technicalities to one chapter and presents those technicalities twice in formal and plain words to advance understanding The final chapter shows that all the threads presented in the previous chapters naturally converge toward what has come to be called Discipline of Anticipation

Academic Leadership Marmar Mukhopadhyay, 2023-03-28 This book provides contemporary knowledge on school effectiveness and proposes strategic interventions for enhancing it It focuses on improving academic leadership for enhancing the effectiveness of schools and discusses how national education policies are helpful in providing a vision towards improving school effectiveness It highlights the role of teachers as academic leaders in the implementation of policy recommendations at school and classroom levels It offers methods and mechanisms for academic leaders to measure the learning of students for school assessment The author also discusses how academic leadership involves creating a vision and mission based on science and research data for the organisation inspiring innovation and creative ideas developing teamwork and a safe environment for staff to express their views While providing an understanding of school as an organization the volume outlines its management functions such as processes and quality of planning management of curriculum learner evaluation institutional networks and human resource management among others The volume is a guidebook for training and

capacity building for school level practitioners and leaders in education management Embedded with real life cases and episodes this volume will be of interest to teachers students and practitioners of education management and education management It will also be useful for academicians educationalists practitioners management professionals educational leaders and policymakers

Adult CNS Radiation Oncology Eric L. Chang, Paul D. Brown, Simon S. Lo, Arjun Sahgal, John H. Suh, 2024-11-27 This new edition elucidates the radiation therapy protocols and procedures for the management of adult patients presenting with primary benign and malignant central nervous system tumors With the development of new treatment strategies and rapid advancement of radiation technology it is crucial for radiation oncologists to maintain and refine their knowledge and skills Dedicated exclusively to adult CNS radiation oncology this textbook explores CNS tumors ranging from the common to the esoteric as well as secondary cancers of metastatic origin The first half of the book is organized anatomically tumors of the brain spinal cord leptomeninges optic pathway ocular choroid and skull base The second half covers primary CNS lymphoma rare CNS tumors metastatic brain disease vascular conditions of the CNS radiation associated complications and radiation modalities This new edition is updated throughout and includes several new chapters including palliative radiation therapy for leptomeningeal disease preoperative treatment for brain metastases advanced neuroimaging for brain tumors and MR LINAC for brain tumors Each chapter provides guidance on treatment field design target delineation and normal critical structure tolerance constraints in the context of the disease being treated Learning objectives case studies and Maintenance of Certification Self Assessment Continuing Medical Education style questions and answers are incorporated throughout the book This is an ideal guide for radiation oncologists residents and fellows but medical students may also find value in the text

Digital Analytics Applications for Sustainable Training and Education Kiran Sood, Prateek Kalia, Simon Grima, Aryan Chaudhary, 2024-11-01 Digital analytics is an emerging new trend used in education to measure collect analyze and report on data about learners and their contexts and to understand and optimize learning and learning environments Taking into consideration the UN's Sustainable Development Goal 4 which aims to ensure inclusive and equitable quality education and promote lifelong learning opportunities for all this new book looks at digital technologies as a means to foster sustainable educational innovations for improving the teaching learning and assessment from K 12 to higher education It demonstrates how artificial intelligence deep learning cloud computing big data and machine learning can be used to assess evaluate record and predict student progress participation performance personalization and empowerment in academic and curricular activities

Serviceology for Smart Service System Yuriko Sawatani, James Spohrer, Stephen Kwan, Takeshi Takenaka, 2016-10-05 Services are key activities in a globalized economy and they also underlie the quality of life of local residents The advanced work presented in this book was selected from the proceedings of the Third International Conference on Serviceology ICServ2015 held July 7-9 2015 in San Jose CA USA The conference was supported by the Society for Serviceology The society was established in 2012 in Japan to explore the

scientific systematization of services and to promote technological developments for solutions to industrial issues This book provides a useful general guide to the state of the art in the theory and practice of services It can also serve as a valuable reference book for researchers in a wide range of fields from engineering to marketing and economics **Swaiman's Pediatric Neurology - E-Book** Stephen Ashwal, Phillip L. Pearl, 2025-05-09 Selected for 2025 Doody's Core Titles in Pediatrics and with Essential Purchase designation in Neurology For fifty years experienced clinicians and physicians in training have relied on Swaiman's cornerstone text as their 1 source for authoritative guidance in pediatric neurology Swaiman's Pediatric Neurology Principles and Practice Seventh Edition continues this tradition of excellence under the expert editorial direction of Drs Stephen Ashwal and Phillip L Pearl along with a team of key leaders in the field who serve as associate and section editors in their areas of expertise Thorough revisions including new chapters new videos new editors and expanded content bring you up to date with this dynamic field Contains new sections on global child neurology and environment and brain development and a greatly expanded section on neurogenetics in addition to new chapters on autoimmune epilepsies immune mediated movement disorders and more Offers expanded online content including additional figures tables and text as well as new personal introductory videos by many chapter authors Covers new emerging or controversial topics such as COVID 19 teleneurology environment and brain development immune mediated disorders of the nervous system functional neurological disorders in children nonverbal learning disorders and the pharmacological and future genetic treatment of neurodevelopmental disabilities Provides authoritative coverage of perinatal acquired and congenital disorders neurodevelopmental disabilities extensive sections on pediatric epilepsy and movement disorders nonepileptiform paroxysmal disorders and disorders of sleep Features nearly 3 000 line drawings photographs tables and boxes that highlight the text clarify key concepts and make it easy to find information quickly Teaching at Its Best Linda B. Nilson, 2016-07-18 The classic teaching toolbox updated with new research and ideas Teaching at Its Best is the bestselling research based toolbox for college instructors at any level in any higher education setting Packed with practical guidance proven techniques and expert perspectives this book helps instructors improve student learning both face to face and online This new fourth edition features five new chapters on building critical thinking into course design creating a welcoming classroom environment helping students learn how to learn giving and receiving feedback and teaching in multiple modes along with the latest research and new questions to facilitate faculty discussion Topics include new coverage of the flipped classroom cutting edge technologies self regulated learning the mental processes involved in learning and memory and more in the accessible format and easy to understand style that has made this book a much valued resource among college faculty Good instructors are always looking for ways to improve student learning With college classrooms becoming increasingly varied by age ability and experience the need for fresh ideas and techniques has never been greater This book provides a wealth of research backed practices that apply across the board Teach students practical real world

problem solving Interpret student ratings accurately Boost motivation and help students understand how they learn Explore alternative techniques formats activities and exercises Given the ever growing body of research on student learning faculty now have many more choices of effective teaching strategies than they used to have along with many more ways to achieve excellence in the classroom Teaching at Its Best is an invaluable toolbox for refreshing your approach and providing the exceptional education your students deserve Real World Psychology Catherine A. Sanderson, Karen R.

Huffman, 2019-12-24 Real World Psychology balances comprehensive coverage of the key concepts in introductory psychology with a concise presentation style and engages students with current and interesting research that explores these concepts in real life contexts Real World Psychology features the incomparable author team of Karen Huffman Palomar College and Catherine Sanderson Amherst College who create an outstanding text that is appealing to students and instructors at a wide range of academic institutions The new edition has been thoroughly updated and features a new focus on Scientific Thinking and Practical Applications underscoring the fact that connecting the principles of psychological science to everyday life is critical to student engagement and ultimately key to their success not only in the introductory psychology course but in whatever their chosen field of study and in everyday life Students will leave the course with an appreciation of how a basic yet scientific understanding of human behavior can benefit them in their studies in their personal lives and in their professional endeavors

Gr 12 Third Term Life Sciences Practical 2015 Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Gr 12 Third Term Life Sciences Practical 2015**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

http://www.a-walhalla.hu/public/detail/Documents/Series_And_Parallel_Circuits_Lab_Answers.pdf

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