

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.

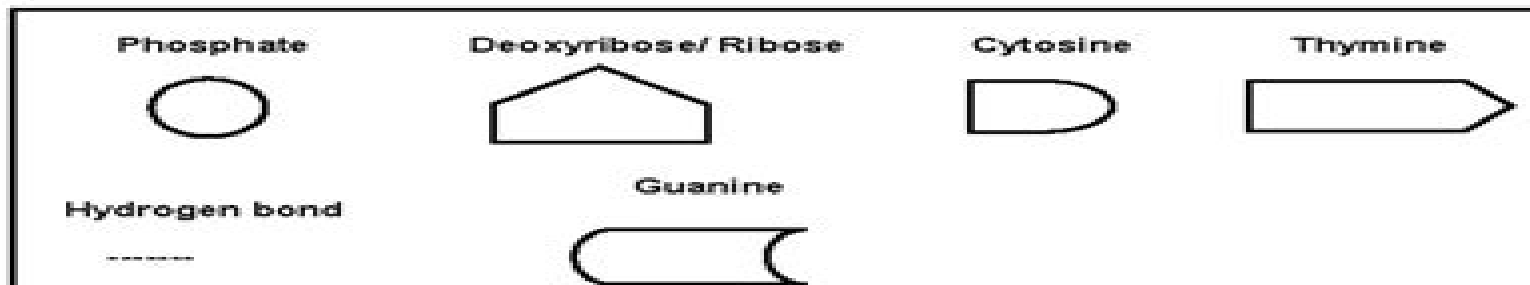
BACKGROUND INFORMATION

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 1 16 February 2015 Grade 1

**Tamru, Seneshaw, Minten, Bart, Alemu,
Dawit, Bachewe, Fantu Nisrane**

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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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Patient-Provider Communication Sarah W. Blackstone, David R. Beukelman, Kathryn M. Yorkston, 2015-04-30 Patient Provider Communication Roles for Speech Language Pathologists and Other Health Care Professionals presents timely information regarding effective patient centered communication across a variety of health care settings Speech language pathologists who serve the communication needs of children and adults as well as professionals from medical and allied health fields will benefit from this valuable resource This text is particularly relevant because of changes in health care law and policy It focuses on value based care patient engagement and positive patient experiences that produce better outcomes Authors describe evidence based strategies that support communication vulnerable patients including individuals who have difficulty speaking hearing understanding seeing reading and writing as well as patients whose challenges reflect limited health literacy and or differences in language culture religion sexual orientation and so on Topics addressed include patient provider communication in medical education emergency and disaster scenarios doctor s offices and clinics adult and pediatric acute care settings rehabilitation long term residential care and hospice palliative care situations The editors are recognized internationally for their work in the field of communication disorders and have been active in the area of patient provider communication for many years Patient Provider Communication is a must have resource for speech language pathologists and other health care providers at the forefront of quality patient centered care

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

Fundamentals of Collection Development and Management, Fourth Edition Peggy Johnson, 2018-07-23 Technical Services Quarterly declared that the third edition must now be considered the essential textbook for collection development and management the first place to go for reliable and informative advice For the fourth edition expert instructor and librarian Johnson has revised and freshened this resource to ensure its timeliness and continued excellence Each chapter offers complete coverage of one aspect of collection development and management including numerous suggestions for further reading and narrative case studies exploring the issues Thorough consideration is given to traditional management topics such as organization of the collection weeding staffing and policymaking cooperative collection development and management licenses negotiation contracts maintaining productive relationships with vendors and publishers and other important purchasing and budgeting topics important issues such as the ways that changes in information delivery and access technologies continue to reshape the discipline the evolving needs and expectations of library users and new roles for subject specialists all illustrated using updated examples and data and marketing liaison activities and outreach As a comprehensive introduction for LIS students a primer for experienced librarians with new collection development and management responsibilities and a handy reference resource for practitioners as they go about their day to day work the value and usefulness of this book remain unequaled

Benefit-Risk Assessment Methods in Medical Product Development Qi Jiang, Weili He, 2017-12-19 Guides You on the Development and Implementation of B R Evaluations Benefit Risk Assessment Methods in Medical Product Development Bridging Qualitative and Quantitative Assessments provides general guidance and case studies to aid practitioners in selecting specific benefit risk B R frameworks and quantitative methods Leading experts from industry regulatory agencies and academia present practical examples lessons learned and best practices that illustrate how to conduct structured B R assessment in clinical development and regulatory submission The first section of the book discusses the role of B R assessments in medicine development and

regulation the need for both a common B R framework and patient input into B R decisions and future directions The second section focuses on legislative and regulatory policy initiatives as well as decisions made at the U S FDA s Center for Devices and Radiological Health The third section examines key elements of B R evaluations in a product s life cycle such as uncertainty evaluation and quantification quantifying patient B R trade off preferences ways to identify subgroups with the best B R profiles and data sources used to assist B R assessment The fourth section equips practitioners with tools to conduct B R evaluations including assessment methodologies a quantitative joint modeling and joint evaluation framework and several visualization tools The final section presents a rich collection of case studies With top specialists sharing their in depth knowledge thought provoking considerations and practical advice this book offers comprehensive coverage of B R evaluation methods tools and case studies It gives practitioners a much needed toolkit to develop and conduct their own B R evaluations

Health Informatics: Practical Guide Seventh Edition William R. Hersh, Robert E. Hoyt, 2018 Health informatics is the discipline concerned with the management of healthcare data and information through the application of computers and other information technologies The field focuses more on identifying and applying information in the healthcare field and less on the technology involved Our goal is to stimulate and educate healthcare and IT professionals and students about the key topics in this rapidly changing field This seventh edition reflects the current knowledge in the topics listed below and provides learning objectives key points case studies and extensive references Available as a paperback and eBook Visit the textbook companion website at <http://informaticseducation.org> for more information Page 4 de la couverture

The rapid expansion of herbicide use in smallholder agriculture in Ethiopia Tamru, Seneshaw, Minten, Bart, Alemu, Dawit, Bachewe, Fantu Nisrane, 2016-09-27 We use qualitative and quantitative information from a number of datasets to study the adoption patterns and labor productivity impacts of herbicide use in Ethiopia We find a four fold increase in the value of herbicides imported into Ethiopia over the last decade primarily by the private sector Adoption of herbicides by smallholders has grown rapidly over this period with the application of herbicides on cereals doubling to more than a quarter of the area under cereals between 2004 and 2014 Relying on unique data from a large scale survey of producers of teff the most widely grown cereal in Ethiopia we find significant positive labor productivity effects of herbicide use of between 9 and 18 percent We show that the adoption of herbicides is strongly related to proximity to urban centers levels of local rural wages and access to markets All these factors have changed significantly over the last decade in Ethiopia explaining the rapid take off in herbicide adoption The significant increase in herbicide use in Ethiopia has important implications for rural labor markets potential environmental and health considerations and capacity development for the design and effective implementation of regulatory policies on herbicides

Focus On: 100 Most Popular 2010s Adventure Films Wikipedia contributors, **Fundamentals Davis Essential Nursing Content + Practice Questions** Patricia M Nugent, Barbara A Vitale, 2017-04-20 Up to date with the NCLEX RN 2016 Test Plan Too much information Too little time Here s everything you

need to succeed in your fundamentals of nursing course and prepare for course exams and the NCLEX Succinct content review in outline format focus on must know information while case studies and NCLEX style questions develop your ability to apply your knowledge in simulated clinical situations You ll also find proven techniques and tips to help you study more effectively learn how to approach different types of questions and improve your critical thinking skills 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

Federal Register ,2012-04 **Network Bioscience Volume II** Marco Pellegrini,Marco Antonioti,Bud Mishra,2023-09-01 **Insights in Aging and Public Health: 2022** Marcia G. Ory,Matthew Lee

Smith,2023-10-27 This collection is part of a recurrent series Insights in Aging and Public Health 2021 Our global society is changing Now in the third decade of the 21st Century the achievements made by scientists have led to major advancements in the fast growing field of Aging and Public Health As indicated by the United Nations Declaration of the Decade of Healthy Aging 2021 2030 there is global interest in understanding determinants of healthy aging and strategies to improve the lives of older people their families and the communities in which they live As such the field of public health and aging must

constantly evolve and adapt alongside the ongoing changes in population growth and demographics social and physical environments and policy and other drivers of health related costs Further the indicators of risk and markers of success have assumed new meaning as new societal needs challenges Emergent Public Health Issues in the US-Mexico Border Region Cecilia Ballesteros Rosales, Scott Carter Carvajal, Jill Eileen Guernsey De Zapien, 2017-02-16 US Mexico border region area has unique social demographic and policy forces at work that shape the health of its residents as well as serves as a microcosm of migration health challenges facing an increasingly mobile and globalized world This region reflects the largest migratory flow between any two nations in the world Data from the Pew Research Center shows over the last 25 years there has never been lower than 140 000 annual immigrants from Mexico to the United States with peaks over 700 000 This migratory route is extremely hazardous due to natural e g arid and hot desert regions and human made barriers as well as border enforcement practices tied to socio political and geopolitical pressures Also reflecting the national interdependency of public health and human services needs during the most recent five year period surveyed the migratory flow between the US and Mexico has equaled that of the flow of Mexico to the US both around 1.4 million persons Of particular public health concern within the US Mexico region of both nations there is among the highest disparities in income education infrastructure and access to health care factors within the World Health Organization's conceptualization of the Social Determinants of Health and among the highest rates of chronic disease For instance obesity and diabetes rates in this region are among the highest of those monitored in the world with adult population estimates of the former over 40% and estimates in some population sub groups for the latter over 20% The publications reflected in this Research Topic all reviewed from experts in the field addressed many of the public health issues in the US Mexico Border Health Commission's Healthy Border 2020 objectives Those objectives broad public health goals used to guide a diverse range of government research and community based stakeholders include Non Communicable Diseases including adult and childhood obesity related ones cancer Infectious Diseases e g tuberculosis HIV emerging diseases particularly mosquito borne illnesses Maternal and Child Health Mental Health Disorders and Motor Vehicle Accidents Other relevant public health issues affecting this region for example environmental health binational health services coordination e g immunization the impact of migration throughout the Americas and globally in this region health issues related to the physical climate access to quality health care discrimination mistreatment and well being acculturative immigration stress violence substance use abuse oral health respiratory disease and well being from a social determinants of health framework are critical areas addressed in these publications or for future research Each of these Research Topic publications presented applied solutions e g new programs technology or infrastructure and or public health policy recommendations relevant to each public health challenge addressed

Examination of the Newborn Anne Lomax, 2015-08-17 A practical evidence based guide for students and practitioners to undertake safe and effective neonatal examination Revised and updated throughout in line with current national and Nursing

and Midwifery Council guidelines Full colour photographs and illustrations as well as clinical case studies at the end of each chapter to help guide and illustrate good practice A new companion website available at www.wiley.com/go/lomaxnewborn contains a wealth of information on all aspects of examining the newborn including safeguarding early warning systems and tongue tie as well as interactive multiple choice questions and links to videos *Beating Captain Najor* Todd R.

Nelson,2006-11-12 Weekly columns by an elementary school principal during his six years in a small town in Maine

Foundations of Recreational Service Management Jay S. Shivers,2021-03-08 This thorough text introduces students to the principles and ways of management in public recreational service It includes a history of the modern recreational service movement a general overview of the field and a detailed guide to best practices in leadership coordination public relations planning and budgeting Tips on how to find the best service possible in one s community are offered and the complex relationship between public recreational services and politics is also discussed Other topics range from staff organization to evaluating the effectiveness of a recreational program **Geriatric Psycho-Oncology** Jimmie C.

Holland,Talia Weiss Wiesel,Christian J. Nelson,Andrew J. Roth,Yesne Alici,2015-02-03 Geriatric Psycho Oncology is a comprehensive handbook that provides best practice models for the management of psychological cognitive and social outcomes of older adults living with cancer and their families Chapters cover a wide range of topics including screening tools and interventions psychiatric emergencies and disorders physical symptom management communication issues and issues specific to common cancer sites A resource section is appended to provide information on national services and programs

Research, Clinical Trials, Drug Resistance and Safety for Cancer Immunotherapy in Head and Neck Cancers and Brain Tumors Ling Zhang,Dhan Kalvakolanu,Dan Yu,2023-11-10 Head and neck cancers HNCs and brain tumors continue to be fatal diseases in most countries of the world In the past decade cancer immunotherapy has emerged as a promising therapeutic strategy and achieved unprecedented bench to bedside clinical success in the field of oncology Different from traditional surgery chemotherapy and radiotherapy the current cancer immunotherapy aims to recover or enhance the immune system of a patient to recognize and eliminate cancerous cells from the primary tumor and metastases Numerous immunotherapy strategies in particular immune checkpoint inhibitors adoptive cellular therapies and cancer vaccines are under pre clinical investigations or in ongoing clinical trials in a range of cancer types Among them novel drugs have continued to be approved by the FDA which has revolutionized the current cancer treatment by prolonging the survival time of the patients especially in advanced unresectable tumors However not all patients achieve complete responses to immunotherapy due to de novo or acquired resistance Also immunotherapy related adverse events are common although it has a better safety profile than the traditional treatments It has limited the application and efficacy of cancer immunotherapy in tumors including the HNCs and brain tumors and highlights the need for new strategies **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

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