

**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.

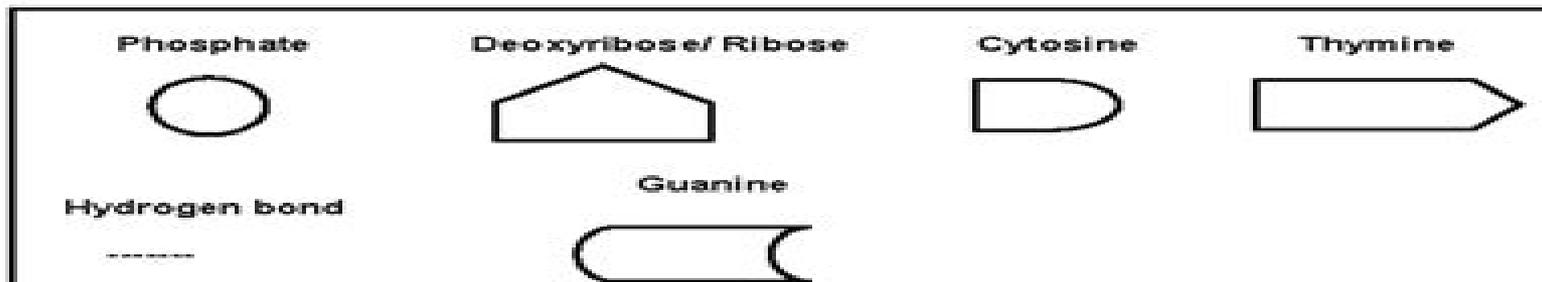
**BACKGROUND INFORMATION**

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 2015

**Sabine Zange**



## **Life Sciences Practical 2015:**

**Excel 2016 for Health Services Management Statistics** Thomas J. Quirk, Simone M. Cummings, 2016-09-01 This book shows the capabilities of Microsoft Excel in teaching health services management statistics effectively Similar to the previously published Excel 2013 for Health Services Management Statistics this book is a step by step exercise driven guide for students and practitioners who need to master Excel to solve practical health service management problems If understanding statistics isn't your strongest suit you are not especially mathematically inclined or if you are wary of computers this is the right book for you Excel a widely available computer program for students and managers is also an effective teaching and learning tool for quantitative analyses in health service courses Its powerful computational ability and graphical functions make learning statistics much easier than in years past However Excel 2016 for Health Services Management Statistics A Guide to Solving Practical Problems is the first book to capitalize on these improvements by teaching students and managers how to apply Excel to statistical techniques necessary in their courses and work Each chapter explains statistical formulas and directs the reader to use Excel commands to solve specific easy to understand health service management problems Practice problems are provided at the end of each chapter with their solutions in an appendix Separately there is a full Practice Test with answers in an Appendix that allows readers to test what they have learned

**Consumer-Driven Technologies in Healthcare: Breakthroughs in Research and Practice** Management Association, Information Resources, 2018-07-06 The world of medical technologies is undergoing a sea change in the domain of consumer culture Having a grasp on what appeals to consumers and how consumers are making purchasing decisions is essential to the success of any organization that thrives by offering a product or service As such it is vital to examine the consumer centered aspects of medical technological developments that have a patient centered focus and allow patients to take part in their own personal health and wellness Consumer Driven Technologies in Healthcare Breakthroughs in Research and Practice is a critical source of academic knowledge on the use of smartphones and other technological devices for cancer therapy fitness and wellness chronic disease monitoring and other areas The tracking of these items using technology has allowed consumers to take control of their own healthcare Highlighting a range of pertinent topics such as clinical decision support systems patient engagement and electronic health records this publication is an ideal reference source for doctors nurse practitioners hospital administrators medical professionals IT professionals academicians and researchers interested in advancing medical practice through technology

*Student's Guide to Psychological Practice: From Theory to Therapy* Darko Pozder, 2025-03-11 Darko Pozder is an Australian mental health professional who has had medical and psychological education Darko has completed extensive research and working experience at the Schizophrenia Fellowship of NSW Darko's main professional and research interest include psychopathology and neuropsychology of mild traumatic brain injury MTBI and chronic traumatic encephalopathy His book Without Stigma About the Stigma of the Mental Illness was published in

2018 and its second edition *Without Stigma About the Stigma and the Identity of the Mental Illness* appeared in early 2019 and has received nomination for 2020 NSW ACT Regional Achievement and Community Awards from Local health districts of NSW His books *Pathophysiology of Psyche* a novel *La Vie De Camille Isa* and *The Ethnicity of Neurons* were published in early 2021 2022 and 2023 respectively

**Linking Theory and Practice of Digital Libraries** Omar Alonso, Helena Cousijn, Gianmaria Silvello, Mónica Marrero, Carla Teixeira Lopes, Stefano Marchesin, 2023-09-21 This book constitutes the refereed proceedings of the 27th International Conference on Linking Theory and Practice of Digital Libraries TPD 2023 held in Zadar Croatia during September 26-29 2023 The 13 full papers and 17 short papers included in this book were carefully reviewed and selected from 69 submissions They were organized in topical sections as follows Applications and digital library systems data citation and citation analysis discovering science monitoring and publishing science knowledge creation Human Computer Interaction digital humanities and digital cultural heritage

*Fundamentals of Medical Practice Investigation* Jeffrey D. Lane, 2016-08-05 *Fundamentals of Medical Practice Investigation* fills an important gap in the resources for criminal investigators Appropriate for novice medical investigators as well as seasoned investigators looking to sharpen their skills this book unites step by step fundamentals with up to date research reviews of critical issues in the field including sexual misconduct patient abuse drug use among medical practitioners and unethical or illegal prescription practices An essential tool for law enforcement and other criminal justice professionals *Fundamentals of Medical Practice Investigation* will improve the quality of all types of medical investigation

*Handbook of Theory and Practice of Sustainable Development in Higher Education* Walter Leal Filho, Luciana Brandli, Paula Castro, Julie Newman, 2016-11-09 This Handbook approaches sustainable development in higher education from an integrated perspective addressing the dearth of publications on the subject It offers a unique overview of what universities around the world are doing to implement sustainable development i.e. via curriculum innovation research activities or practical projects and how their efforts relate to education for sustainable development at the university level The Handbook gathers a wealth of information ideas best practices and lessons learned in the context of executing concrete projects and assesses methodological approaches to integrating the topic of sustainable development in university curricula Lastly it documents and disseminates the veritable treasure trove of practical experience currently available on sustainability in higher education

**Spirituality in Healthcare: Perspectives for Innovative Practice** Fiona Timmins, Silvia Caldeira, 2019-05-17 This book provides a condensed but comprehensive up to date overview of spirituality and its application to health care The need for healthcare workers to provide spiritual care or meet patients spiritual needs is gaining increasing importance in nursing and midwifery policy at local national and international level Internationally there is a growing belief in spirituality as a valid dimension of care The book highlights a range of examples and case studies facilitating the practical application of the recommendations discussed In addition to presenting new psychological perspectives various activities throughout will encourage readers to

form their own opinion on the issues covered The suggestions for further reading and useful websites will also help readers interested in exploring specific areas in more depth Combining contributions by authors from various disciplines the book offers a valuable tool for qualified professional healthcare workers in practice including nurses social workers doctors and chaplains With its handy format this practical pocket guide offers a faithful companion for practitioners **Urban**

**Agriculture and Food Systems: Breakthroughs in Research and Practice** Management Association, Information Resources,2019-03-01 In recent years the global economy has struggled to meet the nutritional needs of a growing populace In an effort to circumvent a deepening food crisis it is pertinent to develop new sustainability strategies and practices to provide a stable supply of food resources Urban Agriculture and Food Systems Breakthroughs in Research and Practice is an authoritative resource on the latest technological developments in urban agriculture and its ability to supplement current food systems The content within this publication represents the work of topics such as sustainable production in urban spaces farming practices and urban distribution methods This publication is an ideal reference source for students professionals policymakers researchers and practitioners interested in recent developments in the areas of agriculture in urban spaces **Encyclopedia of Pharmacy Practice and Clinical Pharmacy** ,2019-06-28 Encyclopedia of Pharmacy Practice and Clinical Pharmacy Three Volume Set covers definitions concepts methods theories and applications of clinical pharmacy and pharmacy practice It highlights why and how this field has a significant impact on healthcare The work brings baseline knowledge along with the latest most cutting edge research In addition new treatments algorithms standard treatment guidelines and pharmacotherapies regarding diseases and disorders are also covered The book s main focus lies on the pharmacy practice side covering pharmacy practice research pharmacovigilance pharmacoconomics social and administrative pharmacy public health pharmacy pharmaceutical systems research the future of pharmacy and new interventional models of pharmaceutical care By providing concise expositions on a broad range of topics this book is an excellent resource for those seeking information beyond their specific areas of expertise This outstanding reference is essential for anyone involved in the study of pharmacy practice Provides a one stop resource for access to information written by world leading scholars in the field Meticulously organized with articles split into three clear sections it is the ideal resource for students researchers and professionals to find relevant information Contains concise and accessible chapters that are ideal as an authoritative introduction for non specialists and readers from the undergraduate level upwards Includes multimedia options such as hyperlinked references and further readings cross references and videos "Code of Massachusetts regulations, 2015" ,2015 Archival snapshot of entire looseleaf Code of Massachusetts Regulations held by the Social Law Library of Massachusetts as of January 2020 **Inclusive Science Communication in Theory and Practice** Thomas Hayden,Erika Check Hayden,Mónica Ivelisse Feliú-Mójer,Raychelle Burks,2022-08-02 Medical and Health Care Books and Serials in Print ,1986 **A Practical Guide to a Big Education** Sarah Seleznyov,Robert Lobatto,2026-03-12 As

a school leader it's time to offer your learners a richer more holistic education that is academic relational and creative Here's how *Leininger's Transcultural Nursing: Concepts, Theories, Research & Practice, Fourth Edition* Marilyn R.

McFarland, Hiba B. Wehbe-Alamah, 2018-04-06 The Cornerstone Text on Transcultural Nursing Concepts Updated with the Latest Advances and Breakthroughs A Doody's Core Title for 2024 2021 Leininger's Transcultural Nursing Concepts Theories Research Practices Fourth Edition offers theoretical and practical guidance about the provision of client focused care by integrating cultural values beliefs and lifeways into an individualized plan of care This acclaimed resource presents a global comparative perspective about Western and non Western cultures and examines the potential future directions for transcultural nursing with insights into rural and urban cultures in the United States including the culture of homeless mothers and children The book covers important topics such as transcultural nursing research and healthcare in Kenya Southeast Asia Haiti Syria and Taiwan as well as translational research globalization conflict resolution mental health considerations Ayurvedic medicine genetics and genomics in healthcare integration of care and caring and an overview of transcultural history concepts and principles Reflecting the work of experts and scholars in the discipline the Fourth Edition includes twenty five new chapters There are also major updates to the Theory of Culture Care Diversity and Universality Ethnonursing Research Method Sunrise Enabler and other enablers SPECIAL FOR FACULTY Chapter PowerPoints available online at MHPProfessional.com including learning objectives figures and chapter summaries to support classroom use

*Indian National Bibliography* B. S. Kesavan, 2017 **Harrison's Principles and Practice of Internal Medicine 19th Edition and Harrison's Principles of Internal Medicine Self-Assessment and Board Review, 19th Edition (EBook) Val-Pak** J. Larry Jameson, Anthony S. Fauci, Dennis L. Kasper, Stephen L. Hauser, Dan L. Longo, Joseph Loscalzo, Charles Weiner, 2017-11-18 SPECIAL OFFER SAVE WHEN YOU PURCHASE HARRISON'S PRINCIPLES OF INTERNAL MEDICINE 19e ALONG WITH THE COMPANION BOARD REVIEW BOOK This dollar saving Harrison's bundle includes two great resources Harrison's Principles of Internal Medicine Nineteenth Edition Through six decades no resource has matched the authority esteemed scholarship and scientific rigor of Harrison's Principles of Internal Medicine Capturing the countless advances and developments across the full span of medicine the 19th edition of Harrison's provides a complete update of essential content related to disease pathogenesis clinical trials current diagnostic methods and imaging approaches evidence based practice guidelines and established and newly approved treatment methods Here are just a few of the outstanding features of the Nineteenth Edition Presented in two volumes Volume 1 is devoted to foundational principles cardinal manifestations of disease and approach to differential diagnosis Volume 2 covers disease pathogenesis and treatment NEW chapters on important topics such as Men's Health The Impact of Global Warming on Infectious Diseases Fatigue and many more Critical updates in management and therapeutics in Hepatitis Coronary Artery Disease Ebola Virus Disease Multiple Sclerosis Diabetes Hypertension Deep Vein Thrombosis and Pulmonary Embolism Acute and Chronic Kidney

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Pharmacotherapy Principles and Practice, Seventh Edition Marie A. Chisholm-Burns, Jill M. Kolesar, Patrick M. Malone, Kelly C Lee, P. Brandon Bookstaver, Kathryn R. Matthias, 2025-06-05 An indispensable guide to the essential principles of pharmacotherapy and their application in real world clinical practice To deliver the best possible patient centered care healthcare professionals must understand how to maximize the effectiveness of medications minimize adverse reactions and promote favorable health outcomes Pharmacotherapy Principles and Practice Seventh Edition provides a strong foundation of evidence based strategies to educate learners on the process of developing executing monitoring and assessing medication therapy This comprehensive guide will help you develop a sound understanding of the fundamental principles behind pharmacotherapy for various diseases This seventh edition reflects the latest findings in the field and includes a new chapter on health equity The new chapter is followed by five chapters focused on special populations pediatrics geriatrics palliative care critical care and global health and travel medicine An additional 97 predominately disease based chapters review epidemiology etiology pathophysiology clinical presentation and diagnosis nonpharmacologic therapy and pharmacologic therapy with emphasis on clear recommendations for medication selection desired outcomes dosing and patient monitoring Pharmacotherapy Principles and Practice Seventh Edition features NEW Chapter Improving Patient Care by Understanding Health Equity and the Social Determinants of Structured learning objectives presented at the beginning of each chapter Key concepts identified by icons highlight the disease state patient assessment and treatment

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