

**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.

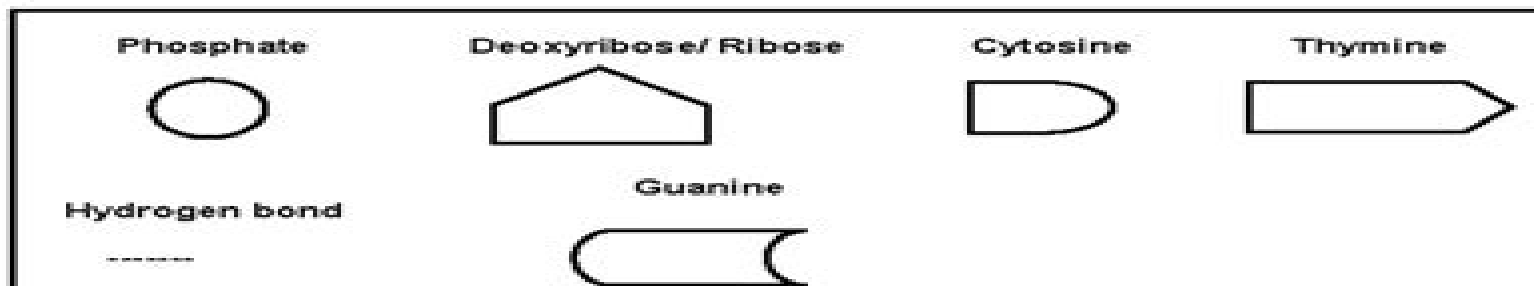
**BACKGROUND INFORMATION**

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

**E Durkheim**



## **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

**Proceedings of the International Conference on Education Research** Reza Hosseini,

**ECMLG2015-11th European Conference on Management Leadership and Governance** José Carlos Dias Rouco, 2015-10-26 These Proceedings represent the work of contributors to the 11th European Conference on Management Leadership and Governance held this year at the Military Academy Lisbon Portugal on the 12-13 November 2015 The Conference Chair is Major General Joao Vieira Borges from and the Programme Chair is Lieutenant Colonel Jose Carlos Dias Rouco both from the Military Academy Lisbon Portugal Keynote presentations are given by Colonel Nuno Lemos Pires from the Military Academy and Lt Col Paulo Fernando Viegas Nunes from the National Defence Institute Lisbon Portugal The Conference offers an opportunity for scholars and practitioners interested in the issues related to Management Leadership and Governance to share their thinking and research findings These fields of study are broadly described as including issues related to the management of the organisations resources the interface between senior management and the formal governance of the organisation This Conference provides a forum for discussion collaboration and intellectual exchange for all those interested in any of these fields of research or practice With an initial submission of 163 abstracts after the double blind peer review process there are 64 Academic research Papers 8 PhD Research Papers and 2 Masters research paper in these Conference Proceedings These papers reflect the truly global nature of research in the area with contributions from Belgium Canada China Colombia Czech Republic Denmark Finland Germany Italy Japan Kazakhstan Lithuania Netherlands New Zealand Poland Portugal Republic of Korea Romania Russia Scotland South Africa Syria The Netherlands Turkey UAE

UK United Arab Emirates USA      **Pharmaceutical Product Development** Vandana B. Patravale, John I. Disouza, Maharukh Rustomjee, 2016-05-25 Pharmaceutical product development is a multidisciplinary activity involving extensive efforts in systematic product development and optimization in compliance with regulatory authorities to ensure the quality efficacy and safety of resulting products Pharmaceutical Product Development equips the pharmaceutical formulation scientist with extensive and up to date knowledge of drug product development and covers all steps from the beginning of product conception to the final packaged form that enters the market and lifecycle management thereof Applications of core scientific principles for product development are also thoroughly discussed in conjunction with the latest approaches involving design of experiment and quality by design with comprehensive illustrations based on practical case studies of several dosage forms The book presents pharmaceutical product development information in an easy to read mode with simplified theories case studies and guidelines for students academicians and professionals in the pharmaceutical industry It is an invaluable resource and hands on guide covering managerial regulatory and practical aspects of pharmaceutical product lifecycle management      **Mass Intellectuality and Democratic Leadership in Higher Education** Joss Winn, Richard Hall, 2017-08-24 Higher education in the UK is in crisis The idea of the public university is under assault and both the future of the sector and its relationship to society are being gambled Higher education is increasingly unaffordable its historic institutions are becoming untenable and their purpose is resolutely instrumental What and who have led us to this crisis What are the alternatives To whom do we look for leadership in revealing those alternatives This book critically analyses intellectual leadership in the university exploring ongoing efforts from around the world to create alternative models for organizing higher education and the production of knowledge Its authors offer their experience and views from inside and beyond the structures of mainstream higher education in order to reflect on efforts to create alternatives In the process the volume asks is it possible to reimagine the university democratically and cooperatively If so what are the implications for leadership not just within the university but also in terms of higher education s relationship to society The authors argue that mass higher education is at the point where it no longer reflects the needs capacities and longterm interests of global society An alternative role and purpose is required based upon mass intellectuality or the real possibility of democracy in learning and the production of knowledge      **Data-Centric Business and Applications** Tamara Radivilova, Dmytro Ageyev, Natalia Kryvinska, 2020-06-20 This book addresses the challenges and opportunities of information data processing and management It also covers a range of methods techniques and strategies for making it more efficient approaches to increasing its usage and ways to minimize information data loss while improving customer satisfaction Information and Communication Technologies ICTs and the Service Systems associated with them have had an enormous impact on businesses and our day to day lives over the past three decades and continue to do so This development has led to the emergence of new application areas and relevant disciplines which in turn present new challenges and opportunities for service system usage The book

provides practical insights into various aspects of ICT technologies for service systems Techniques for information data processing and modeling in service systems Strategies for the provision of information data processing and management Methods for collecting and analyzing information data Applications benefits and challenges of service system implementation Solutions to increase the performance of various service systems using the latest ICT technologies **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 *Indian National Bibliography* B. S. Kesavan,2017 **Look Japan** ,2001 **Medical Books and Serials in Print** ,1983 *Fatigue and Fracture Mechanics XXV* Dariusz Skibicki,2014-11-26 Selected peer reviewed papers from the 25th Polish National Conference on Fatigue and Fracture Mechanics May 20 23 2014 Fojutowo Poland **AIIMS**

**Annual Report** All-India Institute of Medical Sciences,2014      United Kingdom Technology Foresight Programme Denis Loveridge,Luke Georghiou,Maria Nedeva,1995      A Reference handbook of the medical sciences embracing the entire range of scientific and practical medicine and allied science v.8, 1904 ,1904      *Journal of Grapevine Research* ,2017  
    California Agriculture ,2023-04      *A Homiletic encyclopaedia of illustrations in theology and morals* ,1883      **Annual report** ,1876      **Bulletin of Books in the Various Departments of Literature and Science Added to the Public Library of Cincinnati During the Year...** Public Library of Cincinnati and Hamilton County,1879      **Catalogue** New South Wales Free Public Library, Sydney,1902

The Top Books of the Year Life Sciences Practical 2015 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the captivating narratives that have captivated audiences this year. Life Sciences Practical 2015 : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a exceptional and gripping novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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