

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.

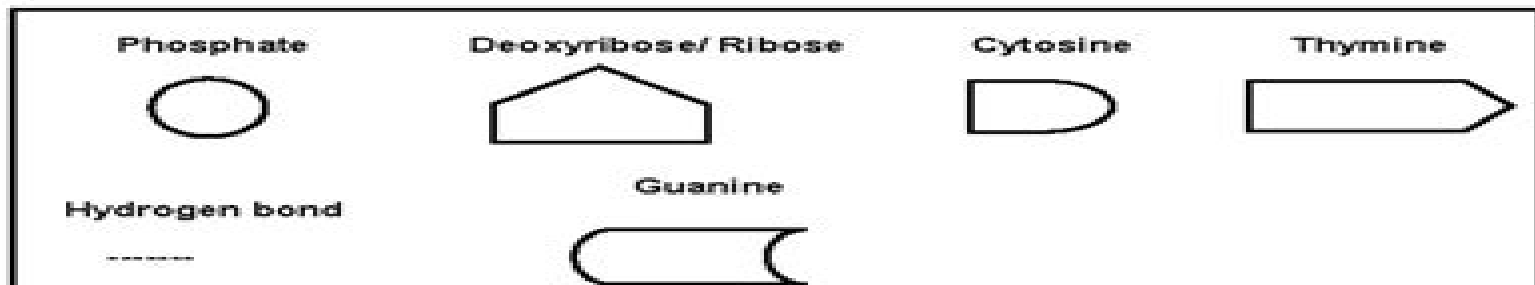
BACKGROUND INFORMATION

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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Umesh Ramnarain



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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

ICEL2015-10th International Conference on e-Learning Dr Carlton Watson, 2015-06-12 These proceedings represent the work of researchers participating in the 10th International Conference on e Learning ICEL 2015 which is being hosted this year by the College of the Bahamas Nassau on the 25-26 June 2015 ICEL is a recognised event on the International research conferences calendar and provides a valuable platform for individuals to present their research findings display their work in progress and discuss conceptual advances in the area of e Learning It provides an important opportunity for researchers and managers to come together with peers to share their experiences of using the varied and expanding range of e Learning available to them With an initial submission of 91 abstracts after the double blind peer review process there are 41 academic Research papers and 2 PhD papers Research papers published in these Conference Proceedings These papers come from some many different countries including Australia Belgium Brazil Canada China Germany Greece Hong Kong Malaysia Portugal Republic of Macedonia Romania Slovakia South Africa Sweden United Arab Emirates UK and the USA A selection of the best papers those agreed by a panel of reviewers and the editor will be published in a conference edition of EJEL the Electronic Journal of e Learning www.ejel.com These will be chosen for their quality of writing and relevance to the Journal's objective of publishing papers that offer new insights or practical help into the application e Learning

School Science Practical Work in Africa Umesh Ramnarain, 2020-06-01 School Science Practical Work in Africa presents the scope of research and practice of science practical work in African schools It brings together prominent science educators and researchers from Africa to share their experience and findings on pedagogical

innovations and research informed practices on school science practical work The book highlights trends and patterns in the enactment and role of practical work across African countries Practical work is regarded as intrinsic to science teaching and learning and the form of practical work that is strongly advocated is inquiry based learning which signals a definite paradigm shift from the traditional teacher dominated to a learner centered approach The book provides empirical research on approaches to practical work contextual factors in the enactment of practical work and professional development in teaching practical work This book will be of great interest to academics researchers and post graduate students in the fields of science education and educational policy

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

What Inclusive Instructors Do Tracie Marcella Addy, Derek Dube, Khadijah A.

Mitchell, Mallory SoRelle, 2023-07-03 This book uniquely offers the distilled wisdom of scores of instructors across ranks disciplines and institution types whose contributions are organized into a thematic framework that progressively introduces the reader to the key dispositions principles and practices for creating the inclusive classroom environments in person and online that will help their students succeed The authors asked the hundreds of instructors whom they surveyed as part of a national study to define what inclusive teaching meant to them and what inclusive teaching approaches they implemented in their courses The instructors voices ring loudly as the authors draw on their responses building on their experiences and expertise to frame the conversation about what inclusive teachers do The authors in addition describe their own insights and practices integrating and discussing current literature relevant to inclusive teaching to ensure a research supported approach Inclusive teaching is no longer an option but a vital teaching competency as our classrooms fill with racially diverse first generation and low income and working class students who need a sense of belonging and recognition to thrive and contribute to the construction of knowledge The book unfolds as an informal journey that allows the reader to see into other teachers practices With questions for reflection embedded throughout the book the authors provide the reader with an inviting and thoughtful guide to develop their own inclusive teaching practices By utilizing the concepts and principles in this book readers will be able to take steps to transform their courses into spaces that are equitable and welcoming and adopt practical strategies to address the various inclusion issues that can arise The book will also appeal to educational developers and staff who support instructors in their inclusive teaching efforts It should find a place in reflective workshops book clubs and learning communities exploring this important topic Emerging Perspectives and Trends in Innovative Technology for Quality Education 4.0

Udan Kusmawan, Siti Aisyah, Isti Rokhiyah, Andayani, Della Raymena Jovanka, Dodi Sukmayadi, 2020-05-14 Industrial Revolution 4.0 has dramatically changed the business and social landscape including human behavior not only in advanced countries but also in emerging countries Technology development affects many aspects in our society including education Distance learning big data and analytics artificial intelligent and many digital innovations have been released to improve better quality education in our society These proceedings provide selected papers research about innovative digital technology in education and pedagogy in Industrial revolution 4.0 covering issues like pedagogy education management early childhood education research in education training and vocational education and social science education earth science education and art linguistic education related to digital innovation This book provides details beyond what is possible to be included in an oral presentation and constitute a concise but timely medium for the dissemination of recent research results It will be invaluable to professionals and academics in the field of education and pedagogy to get an understanding of recent research **Indian National Bibliography** B. S. Kesavan, 2017 Look Japan , 2001 **Science & Technology in Japan** , 1991 The Quest for Technology Transfer Anuwar Ali, 1986 Medical Books and Serials in Print , 1983 Books for Wales , 1901 **Public Library Journal** Cardiff Free Libraries, 1902 **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 **Management Information Systems** R. Kelly Rainer,Brad Prince,Hugh J. Watson,2016-11-16 The 4th Edition of Management Information Systems promotes active learning like no other text in the market Each chapter is comprised of tightly coupled concepts and section level student activities that transport your students from passively learning about IS to doing IS in a realistic context *The Public Library Journal* Cardiff (Wales). Free Libraries,1902 *California Agriculture* ,2023-04 *A Treatise on the Modern Law of Evidence: Reasoning by witnesses* Charles Frederic Chamberlayne,1912 **Journal of the American Medical Association** American Medical Association,1913

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