

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.

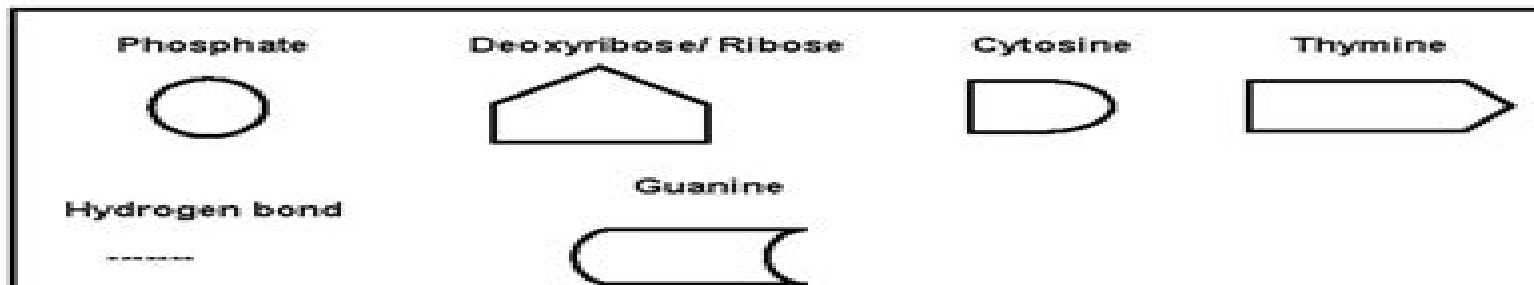
BACKGROUND INFORMATION

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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B. S. Kesavan



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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 Biomedical Visualisation Ourania Varsou,Paul M.

Rea,Michelle Welsh,2022-12-16 This book focuses on the challenges to biomedical education posed by the lockdowns and restrictions to on campus teaching brought about by the COVID 19 pandemic and highlights the tools and digital visualization technologies that have been successfully developed and used for remote teaching Biomedical education for science medical dental and allied health professionals relies on teaching visual and tactile knowledge using practice based approaches This has been delivered for decades via on campus lectures workshops and laboratories teaching practical skills as well as fundamental knowledge and understanding However the arrival of the COVID 19 pandemic meant that education across the globe had to pivot very quickly to be able to deliver these skills and knowledge in a predominantly online environment This brought with it many challenges as Higher Education staff had to adapt to deliver these visual subjects remotely This book addresses the challenges and solutions faced by Higher Education staff in teaching visual content in distance education Chapters include literature reviews original research and pedagogical reflections for a wide range of biomedical subjects degrees such as medicine dentistry and veterinary sciences with examples from undergraduate and postgraduate settings The goal of the book is to provide a compendium of expertise based on evidence gathered during the COVID 19 pandemic as well as reflections on the challenges and lessons learned from this dramatic shift in teaching It also presents new examples of best practices that have emerged from this experience to ensure that they are not lost as we return to on campus learning in a new era of biomedical teaching This book will be of interest to anyone looking for a helpful reference point when designing online or blended teaching for visual practice based subjects **100 questions and answers for job interview Offshore**

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Energy Nexus issues and challenges and its potential applications to a variety of environmental problems that are impacting the Euro Mediterranean zone and surrounding regions A selection of novel and alternative solutions applied worldwide are included The volume contains over about one hundred carefully refereed contributions from 44 countries worldwide selected for the conference Topics covered include 1 Nexus framework and governance 2 Environmental solutions for the sustainable development of the water sector 3 future clean energy technologies and systems under water constraints 4 environmental engineering and management 5 Implementation and best practices Intended for researchers in environmental engineering environmental science chemistry and civil engineering This volume is also an invaluable guide for industry professionals working in both water and energy sectors *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 **Science & Technology in Japan** ,1991 **Look Japan** ,2001 **Reimagine Pharma Marketing** Subba Rao Chaganti, 2023-06-01 The empowered patients new age technologies such as artificial intelligence AI machine learning ML big data analytics real world data and evidence blockchain electronic health records EHRs digital therapeutics cloud computing and innovative marketing frameworks like design thinking customer journey mapping omnichannel closed loop marketing personalization and agile ways of working are transforming the way healthcare is delivered affecting the pharmaceutical industry Additionally big tech companies such as Amazon Alphabet Apple and Microsoft are disrupting by offering non pharmacological solutions with innovative digital technologies to provide a seamless customer experience in the patient journey The recent COVID 19 pandemic added rocket fuel to the digital transformation of the pharmaceutical industry changing the entire model of care and ingraining telemedicine in the healthcare ecosystem Digital Transformation has become inevitable and imminent Therefore pharma must reimagine its entire strategy and embrace digital transformation to succeed in this rapidly changing marketing environment that is becoming increasingly complex Reimagine Pharma Marketing Make It Future Proof introduces all these technology frameworks Additionally the book presents one hundred and two case studies showing how some of the leading pharmaceutical companies are applying the new age technologies and marketing frameworks effectively It can be your single source guidebook unraveling the future so you can manage it Contents 1 Reimagine Everything Reimagine Every Element of Pharmaceutical Marketing Mix 2 Reimagine the Technology How Pharma Can Harness the Power of New and Emerging Technologies 3 Reimagine Stakeholder Engagement Winning with New Rules of Engagement 4 The Future of Pharma A Look into the Crystal Ball Epilogue You re Gonna Need a Bigger Boat [Reports from Commissioners](#) Great Britain. Parliament. House of Commons, 1875 **Scientific American** ,1870 *First, supplementary, and second reports, with minutes of evidence and appendices. 1872 (c.536)* Great Britain. Royal Commission on Scientific Instruction and the Advancement of Science, 1872 **English Mechanic and World of Science** ,1889 *Publishers' circular and booksellers' record* ,1871 **Catalogue** Baltimore Peabody inst, libr, 1883

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