

#### LIFE SCIENCES GRADE 12

#### PRACTICAL TASK TERM 1 2023

**DURATION: 45 Minutes** 

DNA:	THE	CODE	OF	LIFE

Total 30

#### INSTRUCTIONS AND INFORMATION

#### Read the following instructions carefully before answering the questions.

- This is a formal SBA task and MUST be done under supervised conditions in the classroom.
- Each learner completes this task on his/her own (under test conditions).
- Present your answers as per the instructions of each question.
- Draw all diagrams in pencil and label in blue ink.
- 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.

Phosphate	Deoxyribose/Ribose	Cytosine	Thymine
$\circ$			
Hydrogen bond	Guanine		

#### QUESTION 1

# **Answers For Life Sciences Practical Of 2015**

Kyoji Sassa,Kazuo Konagai,Binod Tiwari,Željko Arbanas,Shinji Sassa

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#### Table of Contents Answers For Life Sciences Practical Of 2015

- 1. Understanding the eBook Answers For Life Sciences Practical Of 2015
  - The Rise of Digital Reading Answers For Life Sciences Practical Of 2015
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Answers For Life Sciences Practical Of 2015
  - Exploring Different Genres
  - o Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Answers For Life Sciences Practical Of 2015
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Answers For Life Sciences Practical Of 2015
  - Personalized Recommendations
  - Answers For Life Sciences Practical Of 2015 User Reviews and Ratings
  - Answers For Life Sciences Practical Of 2015 and Bestseller Lists

- 5. Accessing Answers For Life Sciences Practical Of 2015 Free and Paid eBooks
  - Answers For Life Sciences Practical Of 2015 Public Domain eBooks
  - Answers For Life Sciences Practical Of 2015 eBook Subscription Services
  - Answers For Life Sciences Practical Of 2015 Budget-Friendly Options
- 6. Navigating Answers For Life Sciences Practical Of 2015 eBook Formats
  - o ePub, PDF, MOBI, and More
  - Answers For Life Sciences Practical Of 2015 Compatibility with Devices
  - Answers For Life Sciences Practical Of 2015 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Answers For Life Sciences Practical Of 2015
  - Highlighting and Note-Taking Answers For Life Sciences Practical Of 2015
  - Interactive Elements Answers For Life Sciences Practical Of 2015
- 8. Staying Engaged with Answers For Life Sciences Practical Of 2015
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Answers For Life Sciences Practical Of 2015
- 9. Balancing eBooks and Physical Books Answers For Life Sciences Practical Of 2015
  - $\circ$  Benefits of a Digital Library
  - $\circ$  Creating a Diverse Reading Collection Answers For Life Sciences Practical Of 2015
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Answers For Life Sciences Practical Of 2015
  - Setting Reading Goals Answers For Life Sciences Practical Of 2015
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Answers For Life Sciences Practical Of 2015
  - Fact-Checking eBook Content of Answers For Life Sciences Practical Of 2015
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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