



## GRADE 12 LIFE SCIENCES MARCH TEST

### SECTION A

#### QUESTION 1

1.1 Various options are provided as possible answers to the following questions. Choose the correct answer and write (ONLY) the LETTER (A-D) next to the QUESTION NUMBER (1.1-1.4) on your answer sheet, for example (1.1 B).

1.1.1 Base that pairs with Uracil

- A Thymine
- B Guanine
- C Adenine
- D Cytosine

1.1.2 Bond found between amino acids in a protein

- A Hydrogen bond
- B Disulfide bond
- C Peptide bond
- D Ionic bond

1.1.3 THREE adjacent bases found in a DNA or mRNA molecule

- A Polypeptide
- B Gene
- C Codon
- D Amino acid

1.1.4 Structure where sperm mature

- A Testis
- B Epididymus
- C Prostate gland
- D Vas Deferens

(10)

1.2 Give the correct BIOLOGICAL TERM for each of the following statements (2 x 10 = 20). Write the term in the space provided.

- 1.2.1 The process of the cell dividing to form two daughter cells.
- 1.2.2 The organelle in the cell that produces energy for the cell.
- 1.2.3 The type of mutation with the source as a single strand.
- 1.2.4 The sugar component of the bases in a nucleotide.
- 1.2.5 The natural structure of a DNA molecule.
- 1.2.6 The type of mutation with the source as a chromosome.

(10)

1.3 Indicate whether each of the statements in COLUMN I applies to a CELL, B (ONLY BOTH A and B) or NONE of the items in COLUMN II. Write a (ONLY) B (ONLY BOTH A and B) or NONE next to the QUESTION NUMBER (1.3-1.5).

	COLUMN I	COLUMN II
1.3.1	Released by the plasma pore	A. Chloroplast B. Mitochondrion C. Golgi apparatus D. Vacuole
1.3.2	Typical of a cell	A. Chloroplast B. Mitochondrion C. Golgi apparatus D. Vacuole
1.3.3	Common fluid	A. Plasma B. Lymph

(10)

(TOTAL SECTION A: 20)

# 19 2014 Life Science Controlled Paper

**JR Anderson**



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## **Table of Contents 19 2014 Life Science Controlled Paper**

1. Understanding the eBook 19 2014 Life Science Controlled Paper
  - The Rise of Digital Reading 19 2014 Life Science Controlled Paper
  - Advantages of eBooks Over Traditional Books
2. Identifying 19 2014 Life Science Controlled Paper
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an 19 2014 Life Science Controlled Paper
  - User-Friendly Interface
4. Exploring eBook Recommendations from 19 2014 Life Science Controlled Paper
  - Personalized Recommendations
  - 19 2014 Life Science Controlled Paper User Reviews and Ratings
  - 19 2014 Life Science Controlled Paper and Bestseller Lists
5. Accessing 19 2014 Life Science Controlled Paper Free and Paid eBooks
  - 19 2014 Life Science Controlled Paper Public Domain eBooks
  - 19 2014 Life Science Controlled Paper eBook Subscription Services
  - 19 2014 Life Science Controlled Paper Budget-Friendly Options

6. Navigating 19 2014 Life Science Controlled Paper eBook Formats
  - ePub, PDF, MOBI, and More
  - 19 2014 Life Science Controlled Paper Compatibility with Devices
  - 19 2014 Life Science Controlled Paper Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of 19 2014 Life Science Controlled Paper
  - Highlighting and Note-Taking 19 2014 Life Science Controlled Paper
  - Interactive Elements 19 2014 Life Science Controlled Paper
8. Staying Engaged with 19 2014 Life Science Controlled Paper
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers 19 2014 Life Science Controlled Paper
9. Balancing eBooks and Physical Books 19 2014 Life Science Controlled Paper
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection 19 2014 Life Science Controlled Paper
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine 19 2014 Life Science Controlled Paper
  - Setting Reading Goals 19 2014 Life Science Controlled Paper
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of 19 2014 Life Science Controlled Paper
  - Fact-Checking eBook Content of 19 2014 Life Science Controlled Paper
  - 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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