

1.1.5 ... tissue functions to conduct impulses throughout the body.

- A connective
- B nerve
- C muscle
- D epithelial

1.1.6 What is the magnification of the eye piece if the total magnification is 40x and the objective lens is 5x?

- A 2x
- B 15x
- C 4x
- D 5x

1.1.7 The following statements refer to the appendicular skeleton:

- i ~~apertures are found in the scapula~~
- ii ~~apertures are found in the humerus~~
- iii ~~apertures are found in the radius~~
- iv ~~apertures are found in the ulna~~

Which of the following combinations are correct?

- A ~~ii and iii only~~
- B ~~i and ii only~~
- C ~~i and iii only~~
- D ~~i and iv only~~

1.1.8 How many cells will be present after 4 mitotic divisions?

- A 
- B 
- C 
- D 

1.1.9 Which of the following cells make up phloem tissue?

- A ~~sieve tube elements and companion cells~~
- B ~~sieve tube elements and phloem parenchyma~~
- C ~~sieve tube elements and xylem~~
- D ~~sieve tube elements and collenchyma~~

1.1.10 ... is NOT an adaptation to decrease transpiration.

- A stomatal closure
- B stomatalia
- C stomatal closure during the night
- D ability of a stomata to re-open and close

[10x2=20]

1.2 Give the correct BIOLOGICAL TERM for each of the following statements. Write only the term next to the QUESTION NUMBER (1.2.1-1.2.8).

1.2.1 ~~organelle that is the site of protein synthesis~~

1.2.2 ~~process by which a cell takes in substances from its environment~~

1.2.3 ~~process by which a cell takes in substances from its environment~~

1.2.4 ~~process by which a cell takes in substances from its environment~~

1.2.5 Site for protein synthesis.

1.2.6 ~~process by which a cell takes in substances from its environment~~

1.2.7 Cells containing two sets of chromosomes.

1.2.8 ~~movement of substances from one part of the plant to another~~

[5x1=5]

1.3 Indicate whether each of the statements in COLUMN I applies to A ONLY, 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 (1.3.1-1.3.3).

	COLUMN I	COLUMN II
1.3.1	Plant organ responsible for transport	Root Stem
1.3.2	Movement of substances from a low concentration to a high concentration	Active transport Diffusion
1.3.3	To test for the presence of a reducing sugar	Ammonium hydroxide Benedict's solution

[3x2=6]

1.4 The tables below are those of organic and inorganic compounds.

Complete the TWO tables by writing ONLY the ANSWER next to the QUESTION NUMBER (1.4.1 – 1.4.5) on your folio paper.

Name of compounds	Molecular compound	Importance of compound
Carbon dioxide	1.4.1	Photosynthesis
Water	1.4.2	Transpiration
1.4.3	Ammonia	1.4.4

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Table of Contents 2013 Grade 10 Life Science Final Exam Paper1

1. Understanding the eBook 2013 Grade 10 Life Science Final Exam Paper1
 - The Rise of Digital Reading 2013 Grade 10 Life Science Final Exam Paper1
 - Advantages of eBooks Over Traditional Books
2. Identifying 2013 Grade 10 Life Science Final Exam Paper1
 - 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 eBook 2013 Grade 10 Life Science Final Exam Paper1
 - User-Friendly Interface
4. Exploring eBook Recommendations from 2013 Grade 10 Life Science Final Exam Paper1
 - Personalized Recommendations
 - 2013 Grade 10 Life Science Final Exam Paper1 User Reviews and Ratings
 - 2013 Grade 10 Life Science Final Exam Paper1 and Bestseller Lists
5. Accessing 2013 Grade 10 Life Science Final Exam Paper1 Free and Paid eBooks
 - 2013 Grade 10 Life Science Final Exam Paper1 Public Domain eBooks
 - 2013 Grade 10 Life Science Final Exam Paper1 eBook Subscription Services
 - 2013 Grade 10 Life Science Final Exam Paper1 Budget-Friendly Options
6. Navigating 2013 Grade 10 Life Science Final Exam Paper1 eBook Formats
 - ePub, PDF, MOBI, and More
 - 2013 Grade 10 Life Science Final Exam Paper1 Compatibility with Devices
 - 2013 Grade 10 Life Science Final Exam Paper1 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of 2013 Grade 10 Life Science Final Exam Paper1
 - Highlighting and Note-Taking 2013 Grade 10 Life Science Final Exam Paper1
 - Interactive Elements 2013 Grade 10 Life Science Final Exam Paper1
8. Staying Engaged with 2013 Grade 10 Life Science Final Exam Paper1

- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 2013 Grade 10 Life Science Final Exam Paper1
9. Balancing eBooks and Physical Books 2013 Grade 10 Life Science Final Exam Paper1
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection 2013 Grade 10 Life Science Final Exam Paper1
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine 2013 Grade 10 Life Science Final Exam Paper1
- Setting Reading Goals 2013 Grade 10 Life Science Final Exam Paper1
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of 2013 Grade 10 Life Science Final Exam Paper1
- Fact-Checking eBook Content of 2013 Grade 10 Life Science Final Exam Paper1
 - 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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