

CSEC Integrated Science Paper 2 – May/June 2018

Question 1: Osmosis in Plants

1. (a) Define the term 'osmosis'.

Osmosis is the movement of water molecules from a region of higher water concentration to a region of lower water concentration through a selectively permeable membrane.

2. (b) Describe ONE role of osmosis in plants.

Osmosis helps water move from the soil into root cells, maintaining turgidity and supporting plant structure.

3. (c) Explain what would happen to a plant cell placed in a highly concentrated salt solution.

Water would move out of the cell by osmosis, causing it to shrink and become plasmolysed.

Question 2: Human Skin and Temperature Regulation

4. (a) State TWO functions of the human skin.

1. Protects the body from microorganisms and physical damage
2. Regulates body temperature through sweating and blood flow

5. (b) Explain how sweating helps to cool the body.

Sweating releases moisture onto the skin surface. As the sweat evaporates, it absorbs heat from the body, producing a cooling effect.

Question 3: Separation of Mixtures

6. (a) Describe how you would separate a mixture of sand and salt.

Add water to the mixture. Salt dissolves while sand does not. Filter the mixture to separate sand. Then evaporate the water from the salt solution to recover the salt.

7. (b) Name the physical property that allows this separation.

Solubility – salt dissolves in water, sand does not.

Gradeagricultural Science Paper2 201

Didier Musso



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Table of Contents Gradeagricultural Science Paper2 201

1. Understanding the eBook Gradeagricultural Science Paper2 201
 - The Rise of Digital Reading Gradeagricultural Science Paper2 201
 - Advantages of eBooks Over Traditional Books
2. Identifying Gradeagricultural Science Paper2 201
 - 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 Gradeagricultural Science Paper2 201
 - User-Friendly Interface
4. Exploring eBook Recommendations from Gradeagricultural Science Paper2 201
 - Personalized Recommendations
 - Gradeagricultural Science Paper2 201 User Reviews and Ratings
 - Gradeagricultural Science Paper2 201 and Bestseller Lists

5. Accessing Gradeagricultural Science Paper2 201 Free and Paid eBooks
 - Gradeagricultural Science Paper2 201 Public Domain eBooks
 - Gradeagricultural Science Paper2 201 eBook Subscription Services
 - Gradeagricultural Science Paper2 201 Budget-Friendly Options
6. Navigating Gradeagricultural Science Paper2 201 eBook Formats
 - ePub, PDF, MOBI, and More
 - Gradeagricultural Science Paper2 201 Compatibility with Devices
 - Gradeagricultural Science Paper2 201 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Gradeagricultural Science Paper2 201
 - Highlighting and Note-Taking Gradeagricultural Science Paper2 201
 - Interactive Elements Gradeagricultural Science Paper2 201
8. Staying Engaged with Gradeagricultural Science Paper2 201
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Gradeagricultural Science Paper2 201
9. Balancing eBooks and Physical Books Gradeagricultural Science Paper2 201
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Gradeagricultural Science Paper2 201
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Gradeagricultural Science Paper2 201
 - Setting Reading Goals Gradeagricultural Science Paper2 201
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Gradeagricultural Science Paper2 201
 - Fact-Checking eBook Content of Gradeagricultural Science Paper2 201
 - 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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