

**SECTION A (40 marks)**

*Answer all the questions in this section in the spaces provided.*

1. In an experiment to investigate the effect of sodium chloride on the growth rate in a spinach seedling, seeds were treated with different concentrations of sodium chloride. The results are as recorded in the table below.

| Concentration of sodium chloride (mol/l) | Percentage of spinach seeds which started to grow roots | Mean root length (mm) |
|------------------------------------------|---------------------------------------------------------|-----------------------|
| 0.00                                     | 99.98                                                   | 17.70                 |
| 0.06                                     | 98.20                                                   | 15.60                 |
| 0.12                                     | 92.0                                                    | 10.20                 |
| 0.18                                     | 54.0                                                    | 7.60                  |

- (a) From the results in the table above, explain the effect of increasing the concentration of sodium chloride. (3 marks)
- (b) Apart from a ruler, state **two** other equipment one would need to determine the rate of growth in the roots. (2 marks)

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**J Elliott**



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## **Table of Contents May 20ib Paper Markscheme**

1. Understanding the eBook May 20ib Paper Markscheme
  - The Rise of Digital Reading May 20ib Paper Markscheme
  - Advantages of eBooks Over Traditional Books
2. Identifying May 20ib Paper Markscheme
  - 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 May 20ib Paper Markscheme
  - User-Friendly Interface
4. Exploring eBook Recommendations from May 20ib Paper Markscheme
  - Personalized Recommendations
  - May 20ib Paper Markscheme User Reviews and Ratings
  - May 20ib Paper Markscheme and Bestseller Lists
5. Accessing May 20ib Paper Markscheme Free and Paid eBooks
  - May 20ib Paper Markscheme Public Domain eBooks
  - May 20ib Paper Markscheme eBook Subscription Services

- May 20ib Paper Markscheme Budget-Friendly Options
- 6. Navigating May 20ib Paper Markscheme eBook Formats
  - ePub, PDF, MOBI, and More
  - May 20ib Paper Markscheme Compatibility with Devices
  - May 20ib Paper Markscheme Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of May 20ib Paper Markscheme
  - Highlighting and Note-Taking May 20ib Paper Markscheme
  - Interactive Elements May 20ib Paper Markscheme
- 8. Staying Engaged with May 20ib Paper Markscheme
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers May 20ib Paper Markscheme
- 9. Balancing eBooks and Physical Books May 20ib Paper Markscheme
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection May 20ib Paper Markscheme
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine May 20ib Paper Markscheme
  - Setting Reading Goals May 20ib Paper Markscheme
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of May 20ib Paper Markscheme
  - Fact-Checking eBook Content of May 20ib Paper Markscheme
  - 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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