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BIOLOGY

0610/61

Paper 6 Alternative to Practical

May/June 2022

1 hour

You must answer on the question paper.

No additional materials are needed.

1 Rice contains starch. Amylase is an enzyme that catalyses the breakdown of starch to form reducing sugars.

A student investigated the effect of amylase on cooked rice.

The student used this method:

- Step 1 Two small beakers were prepared; each beaker contained 20g of cooked white rice. One beaker was labelled W and one beaker was labelled A.
- Step 2 Both of the beakers were put into a 40 °C water-bath.
- Step 3 A measuring cylinder was used to add 20 cm<sup>3</sup> of distilled water to the rice in beaker W.
- Step 4 The same measuring cylinder was then used to add 20 cm<sup>3</sup> of a 1% amylase solution to the rice in beaker A.
- Step 5 The beakers were left in the water-bath for 10 minutes.
- Step 6 One test-tube was labelled W10 and a second test-tube was labelled A10.
- Step 7 After 10 minutes, a glass rod was used to stir the contents of beaker W.
- Step 8 A clean pipette was used to remove 2 cm<sup>3</sup> of the liquid surrounding the rice in beaker W. The 2 cm<sup>3</sup> of liquid was put into test-tube W10.
- Step 9 Steps 7 and 8 were repeated with booker A and test-tube A10.
- Step 10. A syringe was used to add 2 cm<sup>3</sup> of Benedict's solution to each of test-tubes W10 and A10.
- Step 11 Test-tubes W10 and A10 were put into an 80 °C water-bath for five minutes.
- Step 12 After five minutes, the colours of the contents of test-tubes W10 and A10 were observed.

The student's observations are shown in Fig. 1.1.



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# **Roman Wölfel**

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#### Table of Contents Mayjune 2013 9709 Paper 61

- 1. Understanding the eBook Mayjune 2013 9709 Paper 61
  - The Rise of Digital Reading Mayjune 2013 9709 Paper 61
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Mayjune 2013 9709 Paper 61
  - 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 Mayjune 2013 9709 Paper 61
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Mayjune 2013 9709 Paper 61
  - Personalized Recommendations
  - Mayjune 2013 9709 Paper 61 User Reviews and Ratings
  - Mayjune 2013 9709 Paper 61 and Bestseller Lists
- 5. Accessing Mayjune 2013 9709 Paper 61 Free and Paid eBooks

- Mayjune 2013 9709 Paper 61 Public Domain eBooks
- Mayjune 2013 9709 Paper 61 eBook Subscription Services
- Mayjune 2013 9709 Paper 61 Budget-Friendly Options
- 6. Navigating Mayjune 2013 9709 Paper 61 eBook Formats
  - o ePub, PDF, MOBI, and More
  - Mayjune 2013 9709 Paper 61 Compatibility with Devices
  - o Mayjune 2013 9709 Paper 61 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Mayjune 2013 9709 Paper 61
  - Highlighting and Note-Taking Mayjune 2013 9709 Paper 61
  - Interactive Elements Mayjune 2013 9709 Paper 61
- 8. Staying Engaged with Mayjune 2013 9709 Paper 61
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - o Following Authors and Publishers Mayjune 2013 9709 Paper 61
- 9. Balancing eBooks and Physical Books Mayjune 2013 9709 Paper 61
  - Benefits of a Digital Library
  - ∘ Creating a Diverse Reading Collection Mayjune 2013 9709 Paper 61
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Mayjune 2013 9709 Paper 61
  - Setting Reading Goals Mayjune 2013 9709 Paper 61
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Mayjune 2013 9709 Paper 61
  - Fact-Checking eBook Content of Mayjune 2013 9709 Paper 61
  - 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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