



NATIONAL
SENIOR CERTIFICATE

GRADE 11

NOVEMBER 2020

PHYSICAL SCIENCES P2
(CHEMISTRY)
EXEMPLAR

Duration: 120
Time: 1 hour



The question paper consists of 12 pages, including 4 extra sheets.
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QUESTION 8

PHYSICAL SCIENCES PAPER 2

ACID AND BASES

GRADE 11

NOVEMBER 2020

QUESTION 8: ACID AND BASES (20)

8.1. Draw a potential energy diagram for the reaction represented by

The following equation shown on the page:

a. Heat of this reaction (20)
b. Activation energy (10)

QUESTION 8: Start on a NEW page!

8.2. Nitric acid reacts with an organic compound with the following percentage composition:

C: 50.0%, H: 4.34%, N: 45.66%

The molar mass of the compound is 60 g mol⁻¹.

8.2.1. Calculate the molar mass of the compound. (10)
8.2.2. Determine the structure of the compound. (10)
8.2.3. Determine the molecular formula. (10)

8.3. Concentrated nitric acid reacts with sodium hydroxide solution to produce sodium nitrate. 20 g of sodium hydroxide reacts with 20 g of concentrated nitric acid.

8.3.1. Calculate the concentration of the sodium hydroxide solution. (10)
8.3.2. Calculate the concentration of the sodium hydroxide solution. (10)

8.4. Sodium nitrate reacts with acid to form nitrogen gas. The following reaction is shown:

$2\text{NaNO}_3 + 4\text{HNO}_3 \rightarrow 2\text{N}_2\text{O} + 4\text{H}_2\text{O}$

Calculate the volume of nitrogen gas (N₂) that would be produced at STP if 60 g of sodium nitrate reacts completely. (10)

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Peter Morton



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Table of Contents Physical Sciences Paper 2 November 20memorandum

1. Understanding the eBook Physical Sciences Paper 2 November 20memorandum
 - The Rise of Digital Reading Physical Sciences Paper 2 November 20memorandum
 - Advantages of eBooks Over Traditional Books
2. Identifying Physical Sciences Paper 2 November 20memorandum
 - 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 Physical Sciences Paper 2 November 20memorandum
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physical Sciences Paper 2 November 20memorandum
 - Personalized Recommendations
 - Physical Sciences Paper 2 November 20memorandum User Reviews and Ratings
 - Physical Sciences Paper 2 November 20memorandum and Bestseller Lists
5. Accessing Physical Sciences Paper 2 November 20memorandum Free and Paid eBooks
 - Physical Sciences Paper 2 November 20memorandum Public Domain eBooks
 - Physical Sciences Paper 2 November 20memorandum eBook Subscription Services
 - Physical Sciences Paper 2 November 20memorandum Budget-Friendly Options
6. Navigating Physical Sciences Paper 2 November 20memorandum eBook Formats

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- ePub, PDF, MOBI, and More
 - Physical Sciences Paper 2 November 20memorandum Compatibility with Devices
 - Physical Sciences Paper 2 November 20memorandum Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Physical Sciences Paper 2 November 20memorandum
 - Highlighting and Note-Taking Physical Sciences Paper 2 November 20memorandum
 - Interactive Elements Physical Sciences Paper 2 November 20memorandum
 8. Staying Engaged with Physical Sciences Paper 2 November 20memorandum
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Physical Sciences Paper 2 November 20memorandum
 9. Balancing eBooks and Physical Books Physical Sciences Paper 2 November 20memorandum
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Physical Sciences Paper 2 November 20memorandum
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Physical Sciences Paper 2 November 20memorandum
 - Setting Reading Goals Physical Sciences Paper 2 November 20memorandum
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Physical Sciences Paper 2 November 20memorandum
 - Fact-Checking eBook Content of Physical Sciences Paper 2 November 20memorandum
 - 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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