



**GRADE 12 PHYSICAL SCIENCES**  
**NOVEMBER EXAMINATION PAPER 2: CHEMISTRY**

**QUESTION 1**

1.1 Various options are provided as possible answers to the following questions. Choose the correct answer and write **ONLY** the LETTER (A-D) next to the QUESTION NUMBER (1.1.1-1.1.10) on your answer sheet, for example 1.1.11. D.

1.1.1 Catalyst required for a thermal cracking:

- A Strong acids
- B No catalyst required
- C Pt, Ni or Pd
- D FCC

1.1.2 The correct molecular structure for 3-methyl-2-pentanone:



1.1.3 Suffix for the homologous series of esters:

- A -ene
- B -oate
- C -oic acid
- D -al

1.1.4 The relationship between volume and pressure of a gas is:

- A Constant
- B Directly proportional
- C Inversely proportional
- D Independent

1.1.5 Organic homologous series with a double bond between oxygen and carbon:

- A Alkenes
- B Aldehydes
- C Alkynes
- D Alcohols

1.1.6 Which of the following will cause a **DECREASE** in reaction rate?

- A Presence of a catalyst
- B Increase in the concentration of the reactant
- C Decrease in the concentration of the reactant
- D Alteration of electrical conductivity of reactant particles

1.1.7 The product concentration of a chemical reaction is decreased. What would the result be referring to Le Chatelier's principles.

- A The reaction rate of the forward reaction would increase.
- B The reaction rate of the backward reaction would increase.
- C The activation energy would decrease.
- D The activation energy would increase.

1.1.8 Which of the following scenarios would **NOT** cause a change in the Maxwell Boltzmann distribution of a gas?

- A Temperature changes.
- B Concentration changes.
- C Adding a catalyst.
- D Pressure changes.

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## **Table of Contents Physical Sciences Grade 1march Paper 2chemistry Memorandum**

1. Understanding the eBook Physical Sciences Grade 1march Paper 2chemistry Memorandum
  - The Rise of Digital Reading Physical Sciences Grade 1march Paper 2chemistry Memorandum
  - Advantages of eBooks Over Traditional Books
2. Identifying Physical Sciences Grade 1march Paper 2chemistry Memorandum
  - 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 Grade 1march Paper 2chemistry Memorandum
  - User-Friendly Interface
4. Exploring eBook Recommendations from Physical Sciences Grade 1march Paper 2chemistry Memorandum
  - Personalized Recommendations
  - Physical Sciences Grade 1march Paper 2chemistry Memorandum User Reviews and Ratings
  - Physical Sciences Grade 1march Paper 2chemistry Memorandum and Bestseller Lists

5. Accessing Physical Sciences Grade 1march Paper 2chemistry Memorandum Free and Paid eBooks
  - Physical Sciences Grade 1march Paper 2chemistry Memorandum Public Domain eBooks
  - Physical Sciences Grade 1march Paper 2chemistry Memorandum eBook Subscription Services
  - Physical Sciences Grade 1march Paper 2chemistry Memorandum Budget-Friendly Options
6. Navigating Physical Sciences Grade 1march Paper 2chemistry Memorandum eBook Formats
  - ePub, PDF, MOBI, and More
  - Physical Sciences Grade 1march Paper 2chemistry Memorandum Compatibility with Devices
  - Physical Sciences Grade 1march Paper 2chemistry Memorandum Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Physical Sciences Grade 1march Paper 2chemistry Memorandum
  - Highlighting and Note-Taking Physical Sciences Grade 1march Paper 2chemistry Memorandum
  - Interactive Elements Physical Sciences Grade 1march Paper 2chemistry Memorandum
8. Staying Engaged with Physical Sciences Grade 1march Paper 2chemistry Memorandum
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Physical Sciences Grade 1march Paper 2chemistry Memorandum
9. Balancing eBooks and Physical Books Physical Sciences Grade 1march Paper 2chemistry Memorandum
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Physical Sciences Grade 1march Paper 2chemistry Memorandum
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Physical Sciences Grade 1march Paper 2chemistry Memorandum
  - Setting Reading Goals Physical Sciences Grade 1march Paper 2chemistry Memorandum
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Physical Sciences Grade 1march Paper 2chemistry Memorandum
  - Fact-Checking eBook Content of Physical Sciences Grade 1march Paper 2chemistry Memorandum
  - 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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