

4.2 Consider the equations for reactions I to III below.

A and B represent organic compounds that are POSITIONAL isomers.
X is an inorganic product.

I	$\text{CH}_3\text{CH}_2\text{CHCHCH}_3 + \text{HCl} \rightarrow \text{A} + \text{B}$
II	$\text{A} \xrightarrow[\Delta]{\text{H}_2\text{O}} \text{CH}_3\text{CH}_2\text{CH}_2\text{CH}(\text{OH})\text{CH}_3 + \text{X}$
III	$\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}(\text{OH})\text{CH}_3 \rightarrow \text{CH}_3\text{CH}_2\text{CHCHCH}_3 + \text{H}_2\text{O}$

Write down the:

4.2.1 Definition of positional isomers

(2)

4.2.2 Type of reaction represented by reaction I

(1)

4.2.3 STRUCTURAL formula of compound B

(3)

4.2.4 Formula of X

(1)

4.2.5 Name of compound A

(2)

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Table of Contents Grade Exemplar Memorandum Physical Sciences Paper 2

1. Understanding the eBook Grade Exemplar Memorandum Physical Sciences Paper 2
 - The Rise of Digital Reading Grade Exemplar Memorandum Physical Sciences Paper 2
 - Advantages of eBooks Over Traditional Books
2. Identifying Grade Exemplar Memorandum Physical Sciences Paper 2
 - 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 Grade Exemplar Memorandum Physical Sciences Paper 2
 - User-Friendly Interface
4. Exploring eBook Recommendations from Grade Exemplar Memorandum Physical Sciences Paper 2

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

- Fact-Checking eBook Content of Grade Exemplar Memorandum Physical Sciences Paper 2
- 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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