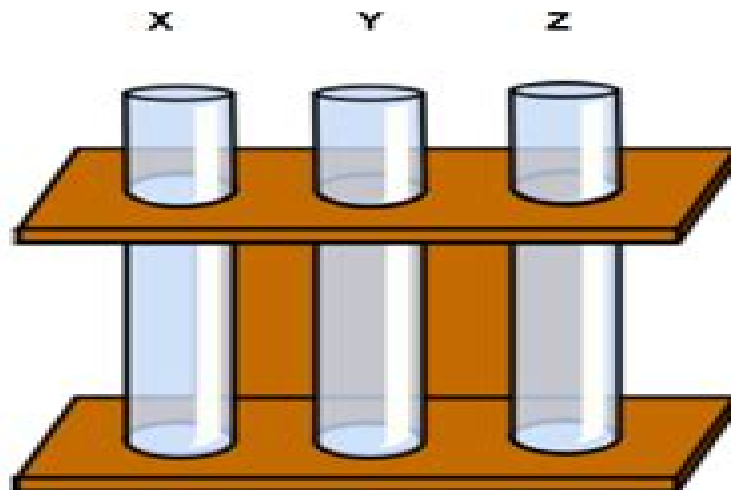


QUESTION 10

The three test tubes, X, Y and Z below, contain colourless solutions. The solutions in each test tube can either be potassium iodide or sodium carbonate or magnesium sulphate. Tests are carried out to determine which test tube contains which salts.



The following tests were carried out and the observations were made:

- Barium chloride solution is added to solution X; the solution remains colourless.
- Barium chloride solution is added to Y and Z; a white precipitate is formed in both cases.
- Dilute nitric acid is added to the precipitate in solution Y; the precipitate dissolves.

(2)

10.1 Define the term *dissociation*.

10.2 Give a reason why barium chloride solution can be used as electrolyte.

(2)

10.3 Write down the name of the precipitate in test tube Z.

(1)

Use the above information to identify the solutions in each of the test tubes X, Y and Z.

10.4 Write down the LETTER that represents the test tube and next to it, the NAME of the solution and the reason for the choice.

(6)

10.5 What type of reaction takes place between the precipitate in Y and the nitric acid?

(1)

[12]

Physical Science Grade 10 Exemplar

JL Elias



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Table of Contents Physical Science Grade 10 Exemplar

1. Understanding the eBook Physical Science Grade 10 Exemplar
 - The Rise of Digital Reading Physical Science Grade 10 Exemplar
 - Advantages of eBooks Over Traditional Books
2. Identifying Physical Science Grade 10 Exemplar
 - 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 Science Grade 10 Exemplar
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physical Science Grade 10 Exemplar
 - Personalized Recommendations
 - Physical Science Grade 10 Exemplar User Reviews and Ratings

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