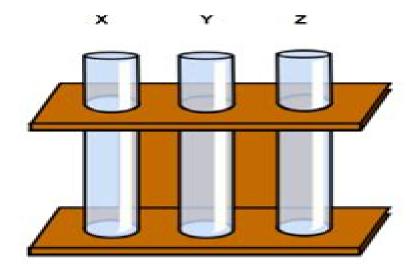
QUESTION 10

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 test 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.
- 10.1 Define the term dissociation.
- 10.2 Give a reason why barium chloride solution can be used as electrolyte.
- 10.3 Write down the name of the precipitate in test tube Z. (1)

(2)

(2)

(1) [12]

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?

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Donna Cross, Leanne Lester

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High-Performance Bolting Technology for Offshore Oil and Natural Gas Operations National Academies of Sciences, Engineering, and Medicine, National Academy of Engineering, Division on Engineering and Physical Sciences, National Materials and Manufacturing Board, Committee on Connector Reliability for Offshore Oil and Natural Gas Operations, 2018-07-12 Commercially significant amounts of crude oil and natural gas lie under the continental shelf of the United States Advances in locating deposits and improvements in drilling and recovery technology have made it technically and economically feasible to extract these resources under harsh conditions But extracting these offshore petroleum resources involves the possibility however remote of oil spills with resulting damage to the ocean and the coastline ecosystems and risks to life and limb of those performing the extraction The environmental consequences of an oil spill can be more severe underwater than on land because sea currents can guickly disperse the oil over a large area and thus cleanup can be problematic Bolted connections are an integral feature of deep water well operations High Performance Bolting Technology for Offshore Oil and Natural Gas Operations summarizes strategies for improving the reliability of fasteners used in offshore oil exploration equipment as well as best practices from other industrial sectors It focuses on critical bolting bolts studs nuts and fasteners used on critical connections Federal Register ,2014 Leading improvement in school community wellbeing Donna Cross, Leanne Lester, 2023-12-01 More than ever before the wellbeing of students staff and the school community must be a priority for principals and school leaders Leading Improvement in School Community Wellbeing provides a framework for a set of high impact strategies that individually and together can be the focus of improving wellbeing across the school The book provides school leaders with key research based school improvement practices authentic case studies in the form of principals reflections and crucially practical explanations outlining how to choose a particular practice and how to successfully embed or implement that strategy within the school Asking What's happening What s working and What s next the three parts of the book provide tools to assess the school community s wellbeing strengths and needs to determine actions required to improve student and staff wellbeing and to effectively implement wellbeing strategies across the school for the benefit of the entire school community The International Journal of **Indian Psychology, Volume 3, Issue 2, No. 6** IJIP.In,2016-03-11 We experience here feeling of joy while presenting first issue of 2016 We thank you again researchers who have presented their articles in this issue This Issue Volume 3 Issue 2 No 6 Published March 2016 Comprehensive Dissertation Index, 1861-1972: Education Xerox University Microfilms, 1973

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- 1. Understanding the eBook Grade 10 Physical Science Examplar For 2014
 - The Rise of Digital Reading Grade 10 Physical Science Examplar For 2014
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Grade 10 Physical Science Examplar For 2014
 - 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 10 Physical Science Examplar For 2014
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Grade 10 Physical Science Examplar For 2014
 - Personalized Recommendations
 - $\circ\,$ Grade 10 Physical Science Examplar For 2014 User Reviews and Ratings
 - Grade 10 Physical Science Examplar For 2014 and Bestseller Lists
- 5. Accessing Grade 10 Physical Science Examplar For 2014 Free and Paid eBooks
 - Grade 10 Physical Science Examplar For 2014 Public Domain eBooks
 - Grade 10 Physical Science Examplar For 2014 eBook Subscription Services
 - Grade 10 Physical Science Examplar For 2014 Budget-Friendly Options

- 6. Navigating Grade 10 Physical Science Examplar For 2014 eBook Formats
 - o ePub, PDF, MOBI, and More
 - Grade 10 Physical Science Examplar For 2014 Compatibility with Devices
 - Grade 10 Physical Science Examplar For 2014 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Grade 10 Physical Science Examplar For 2014
 - Highlighting and Note-Taking Grade 10 Physical Science Examplar For 2014
 - Interactive Elements Grade 10 Physical Science Examplar For 2014
- 8. Staying Engaged with Grade 10 Physical Science Examplar For 2014
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Grade 10 Physical Science Examplar For 2014
- 9. Balancing eBooks and Physical Books Grade 10 Physical Science Examplar For 2014
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Grade 10 Physical Science Examplar For 2014
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Grade 10 Physical Science Examplar For 2014
 - Setting Reading Goals Grade 10 Physical Science Examplar For 2014
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Grade 10 Physical Science Examplar For 2014
 - Fact-Checking eBook Content of Grade 10 Physical Science Examplar For 2014
 - 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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