

Science

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(Chapter – 1) (Chemical Reactions and Equations) (Intext)
(Class 10)

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Question 1:

A solution of a substance 'X' is used for white washing.

(i) Name the substance 'X' and write its formula.

(ii) Write the reaction of the substance 'X' named in (i) above with water.

Answer 1:

(i) The substance 'X' is calcium oxide. Its chemical formula is CaO.

(ii) Calcium oxide reacts vigorously with water to form calcium hydroxide (slaked lime)



Question 2:

Why is the amount of gas collected in one of the test tubes in Activity 1.7 double of the amount collected in the other? Name this gas.

Answer 2:

During the Electrolysis of water, hydrogen and oxygen is get separated by the electricity. Water (H₂O) contains two parts hydrogen and one part oxygen. Since hydrogen goes to one test tube and oxygen goes to another, the amount of gas collected in one of the test tubes is double of the amount collected in the other.

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Question 1:

Why does the colour of copper sulphate solution change when an iron nail is dipped in it?

Answer 1:

When an iron nail is dipped in a copper sulphate solution, iron (which is more reactive than copper) displaces copper from copper sulphate solution forming iron sulphate, which is green in colour.



Therefore, the blue colour of copper sulphate solution fades and green colour appears.

Question 2:

Give an example of a double displacement reaction other than the one given in Activity 1.10.

Answer 2:

Sodium carbonate reacts with calcium chloride to form calcium carbonate and sodium chloride.



In this reaction, sodium carbonate and calcium chloride exchange ions to form two new compounds. Hence, it is a double displacement reaction.

Question 3:

Identify the substances that are oxidised and the substances that are reduced in the following reactions.

(i) $4\text{Na(s)} + \text{O}_2\text{(g)} \rightarrow 2\text{Na}_2\text{O(s)}$

(ii) $\text{CuO(s)} + \text{H}_2\text{(g)} \rightarrow \text{Cu(s)} + \text{H}_2\text{O(l)}$

Answer 3:

(i) Sodium (Na) is oxidised as it gains oxygen and oxygen gets reduced.

(ii) Copper oxide (CuO) is reduced to copper (Cu) while hydrogen (H₂) gets oxidised to water (H₂O).

Answers To Mastering Chemistry Ch 1 Questions

**Catherine E. Housecroft, Edwin C.
Constable**



Answers To Mastering Chemistry Ch 1 Questions:

CBSE Class 12 Mastering Organic Reactions MCQ With Answers Priti Singhal, 2024-11-11 The primary objective of this book is to serve as a comprehensive guide for students educators and researchers by focusing on reaction mechanisms practical applications and problem solving techniques Organic chemistry is not just about memorizing equations and formulas it is about understanding how molecules interact change and influence each other under different conditions With that in mind this book emphasizes the logic and patterns behind organic reactions making it easier for readers to apply concepts across a variety of scenarios Each chapter of this book builds upon foundational knowledge ensuring a progressive learning experience From nucleophilic substitutions to pericyclic reactions and from oxidation reduction mechanisms to named reactions we cover both fundamental and advanced topics to cater to students at all levels Real world examples have been integrated throughout the chapters to show how organic reactions play essential roles in pharmaceuticals biochemistry agriculture and environmental science This approach bridges the gap between theory and practical applications helping readers appreciate the relevance of organic chemistry in daily life

Chemistry, Student Study Guide James E. Brady, Fred Senese, 2008-01-28 The image on the front cover depicts a carbon nanotube emerging from a glowing plasma of hydrogen and carbon as it forms around particles of a metal catalyst Carbon nanotubes are a recently discovered allotrope of carbon Three other allotropes of carbon buckyballs graphite and diamond are illustrated at the left as is the molecule methane CH_4 from which nanotubes and buckyballs can be made The element carbon forms an amazing number of compounds with structures that follow from simple methane found in natural gas to the complex macromolecules that serve as the basis of life on our planet The study of chemistry also follows from the simple to the more complex and the strength of this text is that it enables students with varied backgrounds to proceed together to significant levels of achievement

Mastering Chemistry Jason Chin, Vault Reports (Firm), Job Vault, 1998 The periodic table never looked so good From the properties of matter and mole calculations to the kinetics of reactions and enthalpy change this guide demystifies the complexities of chemistry through easy to follow charts graphs and sample problems

Mastering Organic Chemistry Gerald W. Gibson, 1979 Chemistry Catherine E. Housecroft, Edwin C. Constable, 2010 This text integrates the three major branches of chemistry with the aim of enabling students to tackle more easily the problems within the subject and to apply chemistry to real life situations

Student Solutions Manual to Accompany Chemistry & Chemical Reactivity by Kotz and Purcell Alton J. Banks, John C. Kotz, Keith F. Purcell, 1987 This book purposes isn't to replace the textbook it's just to use like a study guide to supplement your textbook and the class notes Each chapter in it includes a section of learning goals important terms concept test practice problems and practice test In addition many chapters include study hints that may help students to avoid some of the most common misunderstandings and mistakes regarding this material

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Treichel,1999 *Physical Chemistry* Kurt W. Kolasinski,2016-11-14 Much of chemistry is motivated by asking How How do I make a primary alcohol React a Grignard reagent with formaldehyde Physical chemistry is motivated by asking Why The Grignard reagent and formaldehyde follow a molecular dance known as a reaction mechanism in which stronger bonds are made at the expense of weaker bonds If you are interested in asking why and not just how then you need to understand physical chemistry Physical Chemistry How Chemistry Works takes a fresh approach to teaching in physical chemistry This modern textbook is designed to excite and engage undergraduate chemistry students and prepare them for how they will employ physical chemistry in real life The student friendly approach and practical contemporary examples facilitate an understanding of the physical chemical aspects of any system allowing students of inorganic chemistry organic chemistry analytical chemistry and biochemistry to be fluent in the essentials of physical chemistry in order to understand synthesis intermolecular interactions and materials properties For students who are deeply interested in the subject of physical chemistry the textbook facilitates further study by connecting them to the frontiers of research Provides students with the physical and mathematical machinery to understand the physical chemical aspects of any system Integrates regular examples drawn from the literature from contemporary issues and research to engage students with relevant and illustrative details Important topics are introduced and returned to in later chapters key concepts are reinforced and discussed in more depth as students acquire more tools Chapters begin with a preview of important concepts and conclude with a summary of important equations Each chapter includes worked examples and exercises discussion questions simple equation manipulation questions and problem solving exercises Accompanied by supplementary online material worked examples for students and a solutions manual for instructors Fifteen supporting videos from the author presenting such topics as Entropy Rate Laws Sequestration Electrochemistry etc Written by an experienced instructor researcher and author in physical chemistry with a voice and perspective that is pedagogical and engaging Introductory Chemistry Charles H. Corwin,2011 To help students learn chemical skills and concepts more effectively Introductory Chemistry Concepts and Critical Thinking Sixth Edition highlights the connection between key concepts and key problem solving skills through critical thinking Math and problem solving are covered early in the text Corwin builds your problem solving ability through innovative learning aids and technology formulated to meet your needs This revision retains all the strengths of the previous editions while adding emphasis on conceptual understanding and critical thinking *Study Guide* Darrell D. Ebbing,Susan M. Schelble,1998 *Introductory Organic Biochemistry* Frederick A. Bettelheim,William M. Scovell,1997-08 Study Guide [to] Microbiology, Principles & Applications, Third Edition [by] Jacquelyn G. Black Jacquelyn G. Black,George Allan Wistreich,Black,1996 *Introduction to Organic and Biological Chemistry* Michael S. Matta,Antony C. Wilbraham,Dennis D. Staley,1996 **General, Organic and Biochemistry** Kate Brown,William Henry Brown,1983 **How to Study Chemistry** Irwin Becker,1987 *Study Guide for Introduction to Organic and Biochemistry, Fourth Edition* William Henry

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