

# Science

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## (Chapter - 1) (Chemical Reactions and Equations) (Exercises) (Class 10)

### Question 14:

In the refining of silver, the recovery of silver from silver nitrate solution involved displacement by copper metal. Write down the reaction involved.

Answer 14:



### Question 15:

What do you mean by a precipitation reaction? Explain by giving examples.

Answer 15:

A reaction in which an insoluble solid (called precipitate) is formed is called a precipitation reaction.



In this reaction, barium sulphate is obtained as a precipitate. Hence, it is a precipitation reaction.

### Question 16:

Explain the following in terms of gain or loss of oxygen with two examples each.

(a) Oxidation

(b) Reduction

Answer 16:

(a) Oxidation: Oxidation is the gain of oxygen.



Here, carbon (C) is oxidised to carbon dioxide (CO<sub>2</sub>) and copper (Cu) is oxidised to copper oxide (CuO).

(b) Reduction: Reduction is the loss of oxygen.



Here, carbon dioxide (CO<sub>2</sub>) is reduced to carbon monoxide (CO) and copper oxide (CuO) is reduced to copper (Cu).

### Question 17:

A shiny brown coloured element 'X' on heating in air becomes black in colour. Name the element 'X' and the black coloured compound formed.

Answer 17:

The element 'X' is copper (Cu) which is converted into black coloured copper oxide (CuO).



### Question 18:

Why do we apply paint on iron articles?

Answer 18:

Iron articles are painted because applying paints prevents them from rusting. When painted, the contact of iron articles from moisture and air is cut off. Hence, rusting is prevented their presence is essential for rusting to take place.

# Chapter 9 Chemical Reactions Answers

**Raymond Chang**



## Chapter 9 Chemical Reactions Answers:

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Computer Modeling of Chemical Reactions in Enzymes and Solutions Arieh Warshel, 1997-03-28 This practical reference explores computer modeling of enzyme reactions techniques that help chemists biochemists and pharmaceutical researchers understand drug and enzyme action

*Stochastic and Dynamic Views of Chemical Reaction Kinetics in Solutions* A. M. Kuznetsov (dokt. fiz.-mat. nauk.), Alexander M. Kuznetsov, 1999-01-01

*Study Guide with Answers to Selected Problems* H. Stephen Stoker, Danny V. White, 2003-04 This supplement includes for each chapter a brief overview activities and practice problems to reinforce skills and a practice test The answers section includes answers for all odd numbered end of chapter exercises

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