Q.12: What are the uses of resistance in a circuit? OR

When we turn the volume knob and the sound gets quieter. Why?

Ans: Uses of Resistance:

Resistance is also useful in things like transistor radios and TV sets. Suppose we want to lower the volume on our TV. We turn the volume knob and the sound gets quieter. The volume knob is actually part of an electronic component called a variable resistor. If we turn the volume down, we're actually turning up the resistance in an electrical circuit that drives the TV's loudspeaker. When we turn up the resistance, the electric current flowing through the circuit is reduced. With less current, there's less energy to power the loudspeaker, so it sounds much quieter.

- Q.13: How can you define electric circuits? How many types of circuits are there?
- Ans: Electric Circuit:

The method of connecting the electric components is called a circuit.

There are two types of circuits:

(i) Series Combination circuit

(ii) Parallel Combinations circuit

- Q.14: Define series combination circuits.
- Ans: Series Combination Circuits:

When resistors (or any electric components) are connected end to end such that there is only one path for the current to flow then the combination is called a series combination.

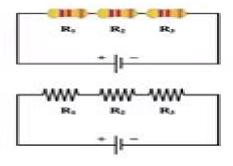
- Q.15: Three resistors are connected in series. Derive the expression for their equivalent resistance.
- Ans: Resistors in Series Combination Circuits:

Let's suppose three resistors R<sub>1</sub>, R<sub>2</sub> and R<sub>3</sub> are connected in series, when this combination is connected to a battery of V volts, it draws current I from the battery. R<sub>e</sub> is a single resistor. This resistor is such that when it is connected to the same battery of V volts, it also draws current I from the battery. This resistor is therefore called equivalent resistor and its resistance is called equivalent resistance.

$$V = V_1 + V_2 + V_3$$

By applying Ohm's Law to each resistor. We have:

$$\mathbf{V_1} = \mathbf{IR_1}$$
 ,  $\mathbf{V_2} = \mathbf{IR_2}$  ,  $\mathbf{V_3} = \mathbf{IR_3}$  ,  $\mathbf{V} = \mathbf{IR_e}$ 



# **Concept Review Part B Electricity Answer**

**Richard Bailey** 

### **Concept Review Part B Electricity Answer:**

Basic Concepts of Chemistry, 9e Study Guide and Solutions Manual Leo J. Malone, Theodore O. Dolter, 2012-01-03 The 9th edition of Malone's Basic Concepts of Chemistry provides many new and advanced features that continue to address general chemistry topics with an emphasis on outcomes assessment New and advanced features include an objectives grid at the end of each chapter which ties the objectives to examples within the sections assessment exercises at the end each section and relevant chapter problems at the end of each chapter A new Math Check allows quick access to the needed basic skill The first chapter now includes brief introductions to several fundamental chemical concepts and Chapter Synthesis Problems have been added to the end of each chapter to bring key concepts into one encompassing problem Every concept in the text is clearly illustrated with one or more step by step examples Making it Real essays have been updated to present timely and engaging real world applications emphasizing the relevance of the material they are learning This edition continues the end of chapter Student Workshop activities to cater to the many different learning styles and to engage users in the practical aspect of the material discussed in the chapter Fusion Part B Edward Teller, 2012-12-02 Fusion Volume I Magnetic Confinement Part B is the second of the two part volume that covers the complexity and application of controlled magnetic fusion This part is composed of nine chapters and begins with a description of the heating methods equilibrium and stability of linear magnetic fusion systems. The next chapters deal with the principles configuration and application of high beta stellarator fast linear compression fusion systems and ELMO Bumpy torus as well as the magnetic confinement of high temperature plasmas These topics are followed by discussions of the neutral beam injection the regimes of radio frequency heating of magnetically confined plasma and the performance requirements of magnetic fusion reactors. The final chapters describe the basic processes in the fusion fission fuel factory and some basic considerations for advanced fuel reactors This book will be of great value to physicists physics students and researchers **Development of Electric Vehicles in Smart** Grid Concepts Supriya Jaiswal, Ajay Kumar, Sanjeevikumar Padmanaban, 2025-08-01 Development of Electric Vehicles in Smart Grid Concepts presents a guide to the design development and deployment of electric vehicles in smart grids The book examines the current technological progression of power electronic converters for smart grid operation and EV technology as well as providing the international standards policies and market needs to ensure readers understand the nuanced requirements of the grid The book begins by introducing EVs encompassing their historical evolution current status and potential advancements It delves into the architecture components working modes and technological challenges within EVs There is a dedicated chapter on international standards governmental policies and codes for implementation followed by the integration of EVs into smart grids discussing infrastructure requirements impacts and integration modes V2G G2V V2B and V2H Technical aspects modeling and optimization methods for EV scheduling are explored alongside battery modeling degradation charging standards SOC estimation and battery management systems Additionally the book examines EV

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