

CBSE Boards 2023

Answer & Solutions

Chemistry

Section-A

1. Which one of the following has lowest pK_a value?

- A. $CH_3 - COOH$
- B. $O_2N - CH_2 - COOH$
- C. $Cl - CH_2 - COOH$
- D. $HCOOH$

Answer (B)

Sol.

As, $pK_a = -\log K_a$

So, as pK_a decreases, acidity will increase, i.e. $pK_a \propto \frac{1}{\text{acidic strength}}$ or $\frac{1}{-I \text{ character}}$

Among the given options, $-NO_2$ has highest $-I$ character i.e., $O_2N - CH_2 - COOH$ has highest acidic character i.e. it will have lowest pK_a value.

Hence, option (b) is correct answer.

2. Which one of the following cell was used in Apollo space program?

- A. Mercury cell
- B. MRI
- C. $H_2 - O_2$ Fuel cell
- D. Dry cell

Answer (C)

Sol.

One of the most successful fuel cell uses the reaction of hydrogen with oxygen to form water. This fuel cell was used for providing electric power in Apollo space program.

3. Consider the following standard electrode potential values:



What is the cell potential for the redox reaction?

- A. $-2.28 V$
- B. $-0.74 V$
- C. $+0.74 V$
- D. $+2.28 V$

Answer (C)

Sol.



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Table of Contents 12th Class Question Paper

1. Understanding the eBook 12th Class Question Paper
 - The Rise of Digital Reading 12th Class Question Paper
 - Advantages of eBooks Over Traditional Books
2. Identifying 12th Class Question Paper
 - 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 12th Class Question Paper
 - User-Friendly Interface
4. Exploring eBook Recommendations from 12th Class Question Paper
 - Personalized Recommendations
 - 12th Class Question Paper User Reviews and Ratings
 - 12th Class Question Paper and Bestseller Lists
5. Accessing 12th Class Question Paper Free and Paid eBooks
 - 12th Class Question Paper Public Domain eBooks
 - 12th Class Question Paper eBook Subscription Services
 - 12th Class Question Paper Budget-Friendly Options
6. Navigating 12th Class Question Paper eBook Formats

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