

EXPERIMENT NO: 1

DATE: / / .

AIM - Determination of the pH of the given water Sample.

APPARATUS -

- i. PH meter along with electrodes
- ii. Buffer solution
- iii. Thermometer
- iv. PH paper

PRINCIPLE -

pH of water is a measure of amount of hydrogen ions that is present in the water. It determines if the water is alkaline or acidic in nature. pH stands for potential of hydrogen, mathematically as

$$\text{pH} = -\log [\text{H}^+]$$

Potentiometric pH meters measure the voltage between two electrodes varying linearly with the pH of the solution in which it is immersed and display the result converted into the corresponding pH value. It comprises of a simple electronic amplifier and a pair of electrodes and some form of display calibrated in pH units. It usually has a **glass electrode** and a **reference electrode** contained within a single probe or a combination electrode, a bulb containing the sensor at the bottom specifically designed to be selective to hydrogen-ion concentration. The electrodes, or probes, are inserted into the solution to be tested.

In order to accurately measure the potential difference between the two sides of the glass membrane reference electrode, which has a stable and well-known electrode potential typically a **silver chloride electrode** or **calomel electrode** are required on each side of the membrane. Their purpose is to measure changes in the potential on their respective side.

Calibration is performed with at least two standard **buffer solutions** that span the range of pH values to be measured.

The magnitude of the electrochemical potential across the glass bulb is linearly related to the pH according to the Nernst equation.

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Table of Contents Nd Sem Chemistry Lab Manual For Rtu

1. Understanding the eBook Nd Sem Chemistry Lab Manual For Rtu
 - The Rise of Digital Reading Nd Sem Chemistry Lab Manual For Rtu
 - Advantages of eBooks Over Traditional Books
2. Identifying Nd Sem Chemistry Lab Manual For Rtu
 - 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 Nd Sem Chemistry Lab Manual For Rtu
 - User-Friendly Interface
4. Exploring eBook Recommendations from Nd Sem Chemistry Lab Manual For Rtu
 - Personalized Recommendations
 - Nd Sem Chemistry Lab Manual For Rtu User Reviews and Ratings
 - Nd Sem Chemistry Lab Manual For Rtu and Bestseller Lists
5. Accessing Nd Sem Chemistry Lab Manual For Rtu Free and Paid eBooks
 - Nd Sem Chemistry Lab Manual For Rtu Public Domain eBooks
 - Nd Sem Chemistry Lab Manual For Rtu eBook Subscription Services
 - Nd Sem Chemistry Lab Manual For Rtu Budget-Friendly Options
6. Navigating Nd Sem Chemistry Lab Manual For Rtu eBook Formats

- ePub, PDF, MOBI, and More
- Nd Sem Chemistry Lab Manual For Rtu Compatibility with Devices
- Nd Sem Chemistry Lab Manual For Rtu Enhanced eBook Features

7. Enhancing Your Reading Experience

- Adjustable Fonts and Text Sizes of Nd Sem Chemistry Lab Manual For Rtu
- Highlighting and Note-Taking Nd Sem Chemistry Lab Manual For Rtu
- Interactive Elements Nd Sem Chemistry Lab Manual For Rtu

8. Staying Engaged with Nd Sem Chemistry Lab Manual For Rtu

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Nd Sem Chemistry Lab Manual For Rtu

9. Balancing eBooks and Physical Books Nd Sem Chemistry Lab Manual For Rtu

- Benefits of a Digital Library
- Creating a Diverse Reading Collection Nd Sem Chemistry Lab Manual For Rtu

10. Overcoming Reading Challenges

- Dealing with Digital Eye Strain
- Minimizing Distractions
- Managing Screen Time

11. Cultivating a Reading Routine Nd Sem Chemistry Lab Manual For Rtu

- Setting Reading Goals Nd Sem Chemistry Lab Manual For Rtu
- Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Nd Sem Chemistry Lab Manual For Rtu

- Fact-Checking eBook Content of Nd Sem Chemistry Lab Manual For Rtu
- 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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