

# SSC CHEMISTRY SUGGESTION AND QUESTION 2018 FOR ALL BOARD

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### SSC Chemistry Suggestion and Question 2018 for All Boards

The Secondary School Certificate (SSC) examination is a crucial milestone for students in their academic journey. To help students prepare effectively for the upcoming SSC Chemistry examination, here is a comprehensive guide with suggested questions and answers.

#### Paragrapgh 1

- **Q1: Define the concept of atomic number.**
- **A:** Atomic number refers to the number of protons found in the nucleus of an atom.
- **Q2: State Avogadro's Law.**
- **A:** Under the same conditions of temperature and pressure, equal volumes of gases contain an equal number of molecules.

#### Paragrapgh 2

- **Q3: Explain the process of electrolysis.**

- **A:** Electrolysis involves the decomposition of a compound using an electric current, separating the ions present in the substance.
- **Q4: Define the term "pH".**
- **A:** pH is a measure of the acidity or alkalinity of a solution, ranging from 0 to 14.

### Paragrapgh 3

- **Q5: Describe the properties and uses of hydrocarbons.**
- **A:** Hydrocarbons are compounds containing only hydrogen and carbon atoms and are found in fuels, plastics, and lubricants.
- **Q6: Explain the role of enzymes in biological reactions.**
- **A:** Enzymes are biological catalysts that speed up chemical reactions in living organisms without being consumed in the process.

### Paragrapgh 4

- **Q7: Discuss the importance of carbohydrates in our diet.**
- **A:** Carbohydrates provide the primary source of energy for humans and are found in grains, fruits, and vegetables.
- **Q8: Define the term "isotope".**
- **A:** Isotopes are atoms of the same element with different numbers of neutrons, resulting in varying atomic masses.

## Paragrapgh 5

- **Q9: Explain the difference between exothermic and endothermic reactions.**
- **A:** Exothermic reactions release heat during the reaction, while endothermic reactions absorb heat from the surroundings.
- **Q10: State the law of conservation of mass.**
- **A:** The law of conservation of mass states that the total mass of reactants in a chemical reaction is equal to the total mass of products.

## Triaxial Test (ASTM D7181): Your Questions Answered

### 1. What is a triaxial test?

A triaxial test is a laboratory procedure used to determine the mechanical properties of soil under various stress conditions. It simulates the in-situ stress state and examines the soil's response to different loading conditions.

### 2. Why is the triaxial test important?

The triaxial test provides valuable insights into the soil's shear strength, deformation characteristics, and drainage conditions. It plays a crucial role in geotechnical engineering, allowing engineers to assess soil stability and predict potential failures.

### 3. How is the triaxial test performed?

A cylindrical soil specimen is placed in a triaxial cell and subjected to axial and confining pressures. Various loading conditions, such as drained or undrained tests, can be applied to study the soil's behavior under different drainage scenarios.

### 4. What information can be obtained from a triaxial test?

The triaxial test generates data on the stress-strain relationship, shear strength parameters, pore pressure generation or dissipation, and the soil's drainage characteristics. These results help determine the soil's stability against failure and its suitability for different engineering applications.

#### **5. What is the standard used for the triaxial test?**

The triaxial test is typically conducted in accordance with ASTM D7181, which specifies the procedures, equipment, and data analysis methods for conducting the test. Adhering to this standard ensures consistency and reliability in the test results.

### **The Oracle Hackers Handbook: A Comprehensive Guide for Oracle Database Security**

**Publisher: Wiley**

**Q: What is the Oracle Hackers Handbook?** A: The Oracle Hackers Handbook is an in-depth guide that provides a comprehensive overview of Oracle database security, offering insights into vulnerabilities, attack techniques, and mitigation strategies.

**Q: Who is the target audience for this book?** A: This book is intended for security professionals, database administrators, and penetration testers responsible for protecting Oracle databases. It is also beneficial for developers, auditors, and individuals interested in understanding the security implications of Oracle databases.

**Q: What topics are covered in the book?** A: The book covers a wide range of topics, including Oracle database architecture, security features, common vulnerabilities, penetration testing methodologies, and risk management strategies. It provides detailed explanations, real-world examples, and practical advice for securing Oracle databases.

**Q: What sets this book apart from others on Oracle database security?** A: The Oracle Hackers Handbook is unique in its comprehensive coverage of both defensive and offensive techniques. It offers a deep understanding of the attacker's mindset, allowing readers to stay ahead of potential threats. Additionally, the book includes contributions from multiple security experts, ensuring a thorough and

balanced perspective.

**Q: How can readers benefit from using this book?** A: By reading the Oracle Hackers Handbook, readers can enhance their understanding of Oracle database security, identify vulnerabilities, develop effective mitigation strategies, and improve their incident response capabilities. It is a valuable resource for anyone seeking to protect Oracle databases from unauthorized access and malicious attacks.

## **Stab Resistance of Shear Thickening Fluids (STFs) and Kevlar**

### **What are Shear Thickening Fluids (STFs)?**

Shear Thickening Fluids are non-Newtonian fluids that exhibit a dramatic increase in viscosity when subjected to a force. This phenomenon, known as shear thickening, makes STFs ideal for applications where impact resistance is required.

### **How does the Stab Resistance of STFs Work?**

When an impact force is applied to a STF, the fluid thickens instantly, forming an impenetrable barrier. This barrier absorbs and dissipates the energy of the incoming projectile, preventing penetration. The higher the impact force, the thicker the fluid becomes, creating an even stronger protective layer.

### **Kevlar and STFs: A Combined Approach**

Kevlar, a strong and lightweight synthetic fiber, has been used in protective gear for decades. By combining STFs with Kevlar, manufacturers can create materials that offer both high stab resistance and flexibility. The STF enhances the impact resistance of Kevlar, while Kevlar provides structural support and prevents the STF from breaking down under prolonged wear.

### **Applications of Stab-Resistant STF-Kevlar Composites**

The combination of STFs and Kevlar has led to the development of a wide range of stab-resistant materials, including:

- Body armor
- Tactical vests

- Riot gear
- Cut-resistant gloves
- Protective clothing for law enforcement and military personnel

## Durability of STF-Kevlar Composites

Both STFs and Kevlar are highly durable materials. STFs can withstand multiple impacts and do not degrade over time. Kevlar is resistant to abrasion, tearing, and puncture, providing long-lasting protection.

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