

# CHAPTER 15 WATER AND AQUEOUS SYSTEMS ANSWER KEY

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**When salt dissolves, the partial \_\_\_\_\_ end of the polar water molecule attracts the \_\_\_\_\_ of the salt.?** Salt (sodium chloride) is made from positive sodium ions bonded to negative chloride ions. Water can dissolve salt because the positive part of water molecules attracts the negative chloride ions, and the negative part of water molecules attracts the positive sodium ions.

**What distinguishes a solution in general and an aqueous solution?** To differentiate between a general solution and an aqueous solution, one must consider the solvent used in each: an aqueous solution specifically uses water as the solvent, while a general solution could use a variety of solvents, not necessarily water.

**Is vapor pressure higher or lower than compounds of similar size and molecular mass?** There is no direct connection between the molar mass of a compound and its vapor pressure. The vapor pressure of a liquid at a particular temperature depends on the strengths of the intermolecular forces.

**What is the summary of water and aqueous systems?** The molecules that dissolve in the solvent are called the solutes. Therefore, in a solution of salt (NaCl) and water, the water is the solvent and the sodium and chloride are the solutes. A solution in which water is the solvent is called an aqueous solution.

**When a salt dissolves in water, the water molecules are attracted by dissolved salt particles.?** The positively-charged side of the water molecules are attracted to the negatively-charged chloride ions and the negatively-charged side of the water molecules are attracted to the positively-charged sodium ions. Essentially, a tug-of-war ensues with the water molecules winning the match.

**When table salt sodium chloride NaCl is placed in water, \_\_\_\_\_blank?** The positively charged sodium ions attract the negatively charged side of the water molecules. As water molecules pull them apart, the ionic link that held the sodium and chloride ions together is broken. Water molecules surround the sodium and chloride atoms, once the salt compounds are separated.

**Does aqueous mean dissolved in water?** The word aqueous (which comes from aqua) means pertaining to, related to, similar to, or dissolved in, water. As water is an excellent solvent and is also naturally abundant, it is a ubiquitous solvent in chemistry.

**What are the three types of aqueous solutions?** Three possible aqueous solutions can be formed: saturated, unsaturated and supersaturated.

**Are aqueous solutions always acids?** No, acids are NOT always aqueous. Mind you, water is SO persistent, and pervasive, that many alternative acid/base regimes become contaminated with water rather quickly, and considerable time, and trouble is expended in order to DRY the non-aqueous solvent.

**Which liquid property is related to why water beads up on a windshield but acetone does not?** 5. Provide an explanation for the following physical properties: (a) Water beads up on your windshield, but acetone doesn't. Water experiences hydrogen bonding, so it has a higher surface tension than acetone, which only has dipole-dipole interactions.

**How are boiling point and vapor pressure related?** The vapor pressure of a liquid lowers the amount of pressure exerted on the liquid by the atmosphere. As a result, liquids with high vapor pressures have lower boiling points. Vapor pressure can be increased by heating a liquid and causing more molecules to enter the atmosphere.

**What is the relationship between surface tension and intermolecular forces?** When the molecules of the liquid shrink into the minimum surface, then this tendency is known as surface tension. As the intermolecular forces increase, the area of space becomes less, and the surface tension increases. So, as the intermolecular forces increase both the viscosity and surface tension also increases.

**Is salt a solvent or solute?** In a solution, the substance which is dissolved is called a solute and the substance in which the solute is dissolved is called a solvent. To obtain salt solution, salt is mixed in water and hence salt is the solute and water is the solvent.

**Is sugar a solute or solvent?** In a sugar-water solution, sugar is the solute and water is the solvent. The water dissolves the sugar. Another example of a substance that dissolves in water is table salt. It is a solute that dissolves in water to form a saltwater solution.

**What do you call a substance that dissolves?** Definition: A substance is soluble if it dissolves in certain fluids. The fluid [gas or liquid] (present in excess) is called the solvent and the substance dissolved in it is called the solute which together form a solution. The process of dissolving is called solvation.

**Is water polar or nonpolar?** Water is a Polar Covalent Molecule. The unequal sharing of electrons between the atoms and the unsymmetrical shape of the molecule means that a water molecule has two poles - a positive charge on the hydrogen pole (side) and a negative charge on the oxygen pole (side).

**When salt is dissolved into water, \_\_\_\_\_?** When salt is added to water, it forms a solution. Here salt is known as solute, and water as solvent.

**Is water covalent or ionic?**

**Why does salt attract water?** Unlike pepper, table salt is hygroscopic, meaning that because of the net positive charge of its chemical components, or ions, it can attract atmospheric water, which has a net negative charge. Traces of salt atop the shaker may attract visible water.

**Why does NaCl dissolve in water?** Solubility: Because the positive portion of water molecules attracts the negative chloride ions and the negative component of water molecules attracts the positive sodium ions, water may dissolve the salt.

**What happened to the salt NaCl as it was added to the water?** Since there is a favorable interaction of NaCl in water, the NaCl (salt) will be dissolved in water. The water molecules will surround the ions of NaCl that will lead to the dissolution of the

salt.

**What happens to salt when it dissolves in water?** Salts are held together by the attraction of positive and negative ions. When they are mixed into water, the positive ions are attracted to the negative part of the water molecule and the negative ions are attracted to the positive part of the water molecule.

**What is the partial positive end of a water molecule attracted to a \_\_\_\_\_?**

AI-generated answer Hydrogen bonds form between water molecules when the partially positive end of one water molecule is attracted to the partially negative end of another water molecule. This occurs because water is a polar molecule, which means that it has both a positive and a negative end.

**When salt is dissolved in water what change is happening at the end?** Hint: If we dissolve a salt in water, the salt will dissociate into its constituent ions which means that some new substance is being formed. It is an irreversible process and there will be either change in temperature, energy, evolution of gas or precipitate formation.

**When NaCl dissolves in water, the Na<sup>+</sup> is attracted to the?** When sodium chloride (NaCl) is dissolved in water, then Na<sup>+</sup> and Cl<sup>-</sup> ions are attracted to the atoms of water molecule.

### **Explore SIMNET Excel Exam Answers for Professional Proficiency**

**Question 1: How do you calculate the average of a range of cells using Excel?**

**Answer:** Use the AVERAGE function, e.g., =AVERAGE(A1:A10)

**Question 2: Explain the purpose of the PMT function in Excel.** **Answer:** The PMT function calculates the monthly payment for a loan, given the principal, interest rate, and loan term.

**Question 3: Describe the process of filtering data in Excel and its benefits.**

**Answer:** Filtering helps isolate specific data. You can use the Filter menu to show only rows or columns that meet certain criteria, making data analysis more efficient.

**Question 4: What is the IF function in Excel and how is it used for conditional formatting?** **Answer:** The IF function evaluates a logical condition and returns a

different value based on the result. It is useful for conditional formatting, where you can apply different styles or colors to cells based on specific criteria.

**Question 5: Explain the concept of dynamic ranges in Excel and how they can be used for data analysis. Answer:** Dynamic ranges automatically adjust their size based on the data in a table. They can be used for data analysis, such as creating pivot tables or charts that can be updated as new data is added or removed. By understanding these concepts and practicing with the Excel exam questions, you can demonstrate your proficiency in Excel and prepare for success in your professional endeavors.

### **Say It with Presentations 2nd Edition, Revised and Expanded: A Masterful Guide to Delivering Dynamic Presentations**

"Say It with Presentations, Second Edition, Revised and Expanded" by Carmine Gallo is the quintessential resource for anyone seeking to design and deliver captivating business presentations. With its comprehensive approach and expert insights, this book provides a roadmap to success for mastering the art of public speaking.

**Q: What makes this revised and expanded edition stand out from previous versions?** A: This updated edition features a wealth of new content, including advanced speaker techniques, the latest trends in presentation design, and strategies for engaging virtual audiences. It also includes updated case studies and practical tips to help readers apply the principles outlined in the book.

**Q: What key concepts are covered in the book?** A: Gallo covers a wide range of topics essential for effective presentations, including planning and structuring your message, creating powerful slides, using visual aids, and overcoming stage fright. He emphasizes the importance of storytelling and connecting with your audience on an emotional level.

**Q: How does the book address the challenges of virtual presentations?** A: With the rise of remote work and virtual meetings, Gallo provides specific guidance on adapting your presentation style to online platforms. He covers strategies for capturing attention, maintaining audience engagement, and overcoming technical glitches.

**Q: What makes this book particularly valuable?** A: Gallo draws inspiration from renowned TED speakers and successful business leaders to share best practices and proven techniques. He also includes exercises and activities to help readers develop their presentation skills.

**Q: Who would benefit most from reading this book?** A: "Say It with Presentations, Second Edition, Revised and Expanded" is highly recommended for anyone who wants to improve their presentation skills, including entrepreneurs, professionals, educators, and aspiring public speakers. By following the principles outlined in this book, readers can achieve greater confidence, deliver impactful presentations, and leave a lasting impression on their audiences.

## **The Ethnic Cleansing of Palestine: Questions and Answers**

### **What is the ethnic cleansing of Palestine?**

Ethnic cleansing refers to the systematic and forced removal of people from a particular ethnic group or background from a specific territory. In the case of Palestine, the ethnic cleansing refers to the forced displacement and expulsion of the Palestinian people from their ancestral lands by the Israeli government and its predecessors.

### **When did the ethnic cleansing of Palestine begin?**

The ethnic cleansing of Palestine has been an ongoing process since the establishment of the State of Israel in 1948. However, the most significant wave of displacement occurred during the 1948 Arab-Israeli War, when approximately 750,000 Palestinians were forcibly expelled from their homes and became refugees.

### **What were the methods used in the ethnic cleansing of Palestine?**

The Israeli government and its predecessors used a variety of methods to displace the Palestinian population, including military force, threats, intimidation, and the destruction of homes and villages. Many Palestinians were forced to flee their homes due to ongoing violence and the fear of persecution.

### **What is the current status of the Palestinian refugees?**

Today, there are over 5 million registered Palestinian refugees in the world, who are descendants of the original 750,000 people displaced in 1948. The majority of these refugees live in refugee camps in the Middle East, while some have resettled in other parts of the world.

### **What are the long-term consequences of the ethnic cleansing of Palestine?**

The ethnic cleansing of Palestine has had devastating consequences for the Palestinian people. It has resulted in the loss of their homeland, the destruction of their cultural heritage, and the ongoing displacement and suffering of millions of people. The issue remains a source of conflict and tension in the Middle East today.

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