Water Solution

A. Choose the Correct Answer:

• **Glass 1:** Sugar – it dissolved quickly.

• Glass 2: Sand – it settled at the bottom.

1. What is a solution made of?		
	a) Only water	b) Water and salt or sugar
	c) Only air	d) Only solid materials
	2. Which of the following will dissolve in water?	
	a) Sand	b) Sugar
	c) Stone	d) Plastic
	3. What happens when you mix salt with water?a) The salt disappears completely	
	b) The water turns into ice	
	c) The salt floats on water	
	d) The water evaporates immediately	
	4. Which of these is an example of a solution?	
	a) Water and oil	b) Water and stones
	c) Sugar dissolved in water	d) A pile of sand and salt
	5. What do we call a substance that dissolves in water?	
	a) Insoluble	b) Heavy
	c) Soluble	d) Liquid
В.	 Fill in the Blanks: When sugar is mixed with water, it in the water. A is formed when one substance dissolves in another. Saltwater is an example of a 	
	4. Some materials, like sand, do substances.	not dissolve in water. They are called
	5. The process of a substance mixing	gevenly in water is called
C. Case Study:		
	Riya wanted to see what happens when different substances are mixed with water. She took three glasses of water and added different items:	

• Glass 3: Salt – it disappeared into the water, making it salty.

Riya noticed that some substances dissolved in water, while others did not.

Case Study Questions:

- 1. What happened to the sugar in Glass 1?
- 2. Why did the sand in Glass 2 not dissolve?
- 3. What kind of solution was formed in Glass 3?
- 4. Based on Riya's experiment, what is the difference between soluble and insoluble substances?

D. Short Answer Questions:

- 1. What is a solution?
- 2. Name two substances that dissolve easily in water.
- 3. Why does salt disappear when mixed with water?

E. Long Answer Questions:

- 1. Explain the difference between soluble and insoluble substances with examples.
- 2. Describe how you can make a lemonade solution at home and explain the process.
- 3. What are some uses of water solutions in daily life? Give three examples.