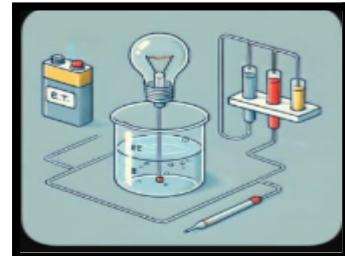


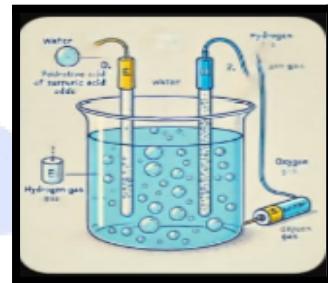
Diagram-Based Questions

1. Based on the diagram, answer the following:
 - a) What will happen if we use a sugar solution instead of saltwater in the beaker?
 - b) Name two other liquids that would produce a similar result to saltwater.



2. Based on the diagram, answer the following:

- a) Which gas is collected at the cathode?
- b) Why is a small amount of sulfuric acid added to water in this process?


Short Answer Questions

3. Why does tap water conduct electricity while distilled water does not?
4. What is electroplating? Give two examples where electroplating is used in daily life.
5. Why is it dangerous to handle electrical appliances with wet hands?
6. Explain the process of electrolysis of copper sulfate solution.

Long Answer Questions

7. Explain the chemical effects of electric current. Discuss the applications of these effects in daily life.
8. Describe an experiment to test the conductivity of three different liquids. Explain your observations and conclusions.
9. Why do some liquids conduct electricity while others do not? Explain the role of ions in conductivity and how it relates to substances like acids, bases, and salts.