Name: _____ Date: _____

Chemical Effects of Electric Current

Q1. What happens when electric current is passed through acidified water?

Ans. _____

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Q2. Tap water conducts electricity whereas distilled water does not. Give reason.

Ans. _____

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Q3. Why is electroplating useful?

Ans. _____

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Chemical Effects of Electric Current

Q1. What happens when electric current is passed through acidified water?

Ans. When electrodes are immersed in water, and a current is passed through acidified water, then oxygen gas is formed at the positive electrode which is connected to the positive terminal of the battery and hydrogen gas is formed at the negative electrode which is connected to the negative terminal of the battery.

Q2. Tap water conducts electricity whereas distilled water does not. Give reason.

Ans. Distilled water is a poor conductor of electricity because it does not contain any dissolved salts in it which can provide it ions to conduct electricity. The distilled water becomes a good conductor of electricity on dissolving a little salt in it. The water that we get from taps is not pure. It may contain several salts dissolved in it. This water is thus a good conductor of electricity.

Q3. Why is electroplating useful?

Ans. Electroplating is a very useful process. It is widely used in industry for coating metal objects with a thin layer of a different metal. The layer of metal deposited has some desired property, which the metal of the object lacks. For example, chromium plating is done on many objects such as car parts, bath taps, kitchen gas burners, bicycle handlebars, wheel rims and many others.