

# Electrical Safety Questions

## Question 1

Electrical current can cause a heating effect which can cause burns - either directly as current flows through the body or indirectly as components get hot.

The heating effect of electrical current is called:

- A. Electrical heating
- B. Current heating
- C. Ohmic heating
- D. Voltaic heating

## Question 2

A small current flowing through the body can be dangerous because it can:

- A. Cause burns
- B. Effect the nerves controlling muscles
- C. Make you feel sleepy
- D. Have no effect

## Question 3

Electrical heating depends on:

- A. Only the voltage
- B. Only the current
- C. Neither voltage or current
- D. Both voltage and current

## Question 4

The heating effect of an electrical current is NOT useful when:

- A. Keeping the wiring in your house warm
- B. Making toast in a toaster
- C. Boiling water in an electric kettle
- D. Making light in a light bulb

## Question 5

The heating effect of electrical current in the home can cause:

- A. An electric shock
- B. Trees to explode
- C. A house fire
- D. The lights to stop working

## Question 6

Capacitors do NOT store:

- A. Energy
- B. Charge
- C. Voltage
- D. Current

## Question 7

Capacitors should be treated with caution:

- A. All the time
- B. Only when connected to a circuit
- C. Only when not connected to a circuit
- D. Only when they are charged

## Question 8

A transformer used in a bathroom is called:

- A. A step down transformer
- B. A step up transformer
- C. An isolating transformer
- D. An emergency transformer

## Question 9

Which of the following is NOT a hazard in the electronics lab?

- A. You and the people working with you
- B. Using low voltage power supplies
- C. Soldering irons
- D. Exploding capacitors

## Question 10

Which of the following does NOT improve safety in the lab?

- A. Wearing rubber gloves
- B. Working with other people present
- C. Carrying out a risk assessment
- D. Disconnecting the batteries when modifying circuits

## Answers

1. C
2. B
3. D
4. A
5. C
6. D
7. A
8. C
9. B
10. A

## Website

[http://www.pfnicholls.com/Electronics\\_Resources/QuestionIndex.html](http://www.pfnicholls.com/Electronics_Resources/QuestionIndex.html)

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