

Chapter: Electric Current and Its Effects

Subtopic: Heating Effect of Electric current

Section 1 : Fill in the blanks with appropriate words.

- 1a. When an _____ flows through a wire, the wire gets heated.
- 1b. An electric heater used for cooking contains a coil of wire which is called an _____.
- 1c. A safety device based on the heating effect of current is known as _____.

Section 2: Answer the following questions in one sentence.

2. Which mark should we look at in an electrical appliance before buying?
- _____
- _____
3. Name some electric appliances where the heating effect of the electric current is used.
- _____
- _____
4. Define the heating effect of current.
- _____
- _____
5. Name the toxic material present in Fluorescent tubes and CFLs.
- _____
- _____

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Section 3: Correct the following statements.

6. When the bulb gets fused, its filament is not broken.

7. The amount of heat produced in a wire does not depends on its material, length and thickness.

8. Wires made from some special materials do not melt quickly and break when large electric currents are passed through them.

Section 4: Think and answer.

9. Why do damaged fluorescent tubes or CFLs need to be disposed off safely?

10. Compare the following images and answer the following question.



Electric bulb



CFL



LED bulb

Which of the above images is a better electricity efficient lighting source and why?
