



Question Bank

Grade 7- Science

Chapter 14 - Electric Current and its effects

Answer the following questions:

1. How do music systems, televisions and computers cope with the heating effect of current due to continuous use?
2. What are the consequences of excessive heating of appliances due to the heating effect of current?
3. How is a fuse wire generally fitted?
4. Why is it necessary to provide cooling mechanisms in appliances like music systems and computers?
5. State the factors on which the amount of heat produced in a wire depends upon.
6. What is the function of an element in a heating appliance?
7. Why does an electric circuit need a cell?
8. Mention the name of the two devices that work on the basis of magnetic effects of current.
9. State the property of a conducting wire is utilised in making electric fuse.
10. Briefly mention which part of the symbol of battery shows positive and negative terminals?
11. Briefly state the effects of electricity.
12. Why is an electric fuse required in all electrical appliance?
13. Paheli does not have a night lamp in her room. She covered the bulb of her room with a towel in the night to get dim light. Has she taken the right step? Give one reason to justify your answer.
14. The nails attract the pins. Comment.
15. Why do we cover plug pinholes which are within the reach of children with cellotape or a plastic cover when not in use?
16. If cells are placed side by side. Then, how are the terminals of the cells connected?
17. Boojho made an electromagnet by winding 50 turns of wire over an iron screw. Paheli also made an electromagnet by winding 100 turns

over a similar iron screw. Which electromagnet will attract more pins? Give reason.

18. Electromagnets are better than permanent magnets. Explain why.

19. Explain with the help of a diagram, how does the magnetic effect of electric current help in the working of an electric bell.

20. State one measure to avoid overloading in an electrical circuit. Also mention the name given to a situation in which the live and the neutral wires accidentally come in contact. Describe the role of a safety device in this situation.

21. Define a solenoid. How is it useful?

22. What is a fuse? How does it work?

23. Describe Oersted's experiment in detail along with a circuit diagram.