



PHYSICS

BOOKS - PSEB

Electric Current and its effects.

Exercise

1. Draw in your notebook the symbols to represent the following components of electric circuits: connecting wires, switch in

the 'OFF' Position, bulb, cell, switch in the ON position, and battery.



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2. Name any two effects of electric circuit.



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3. When the current is switched on through a wire, a compass needle kept nearby gets

deflected from its north-south position.

Explain.



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4. Fill in the blanks: longer line in the symbol for a cell represents its _____ terminal.



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5. Fill in the blanks: The combination of two or more cells is called a _____ .



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6. Fill in the blanks: When current is switched 'on' in a room heater, it _____



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7. Fill in the blanks: The safety device based on the heating effect of electric current is called a _____.



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8. Mark 'T' If the statement is true and 'F' if it is false- To make a battery of two cells, the negative terminal of one cell is connected to the negative terminal of the other cell.(T/F)



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9. Mark 'T' If the statement is true and 'F' if it is false- When the electric current through the fuse exceeds a certain limit, the fuse wire melts and breaks. (T/F)



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10. Mark 'T' if the statement is true and 'F' if it is false-An electromagnet does not attract a piece of iron (T/F)



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11. Mark 'T' if the statement is true and 'F' if it is false- An electric bell has an electromagnet. (T/F)



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12. Do you think an electromagnet can be used for separating plastic bags from the garbage heap? Explain.



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13. An electrician is carrying out some repairs in your house. He wants to replace a fuse by a piece of wire. Would you agree? Give reasons for your response.



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14. Zubeda made an electric circuit using a cell holder shown in fig.14.4, a switch and a bulb. When she put the switch in the 'ON' position, the bulb did not glow. Help Zubeda in identifying the possible defects in the circuit.



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15. In the circuit shown in fig. 14.25- Would any of the bulb glow when the switch is in the 'OFF' position?



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