



## PHYSICS

### ELECTRICITY & CIRCUITS

#### Questions

1. An electric component used as a safety device in electric circuit is \_\_\_\_\_.



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2. An electric cell has \_\_\_\_\_ terminals.



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3. Mark 'True' or 'False' for following statements:

Electric current can flow through metals.



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4. Mark 'True' or 'False' for following statements:

Instead of metal wires, a jute string can be used to make a circuit.



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5. Mark 'True' or 'False' for following statements:

Electric current can pass through a sheet of thermo col.





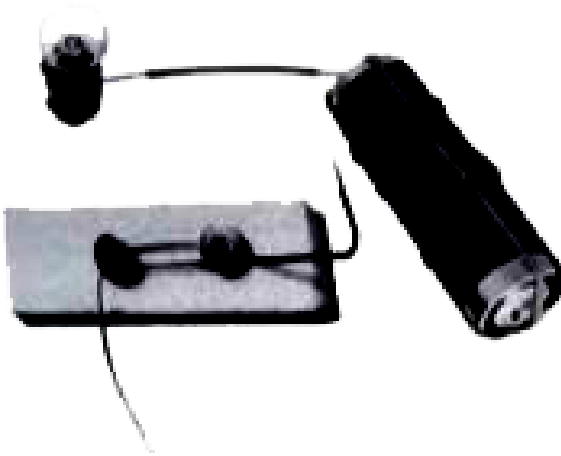
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6. Explain why the bulb would not glow in the arrangement shown in Fig. 12.13.



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7. Complete the drawing shown in Fig 12.14 to indicate where the free ends of the two wires should be joined to make the bulb glow.



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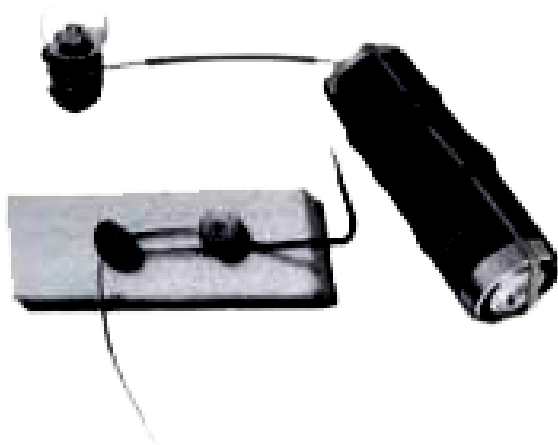
**8.** What is the purpose of using an electric switch? Name some electrical gadgets that have switches built into them.



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**9.** Would the bulb glow after completing the circuit shown in Fig. 12.14 if instead of safety

pin we use an eraser?



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**10.** Would the bulb glow in the circuit shown in Fig. 12.15?



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**11.** Using the 'conduction tester' on an object, it was found that the bulb begins to glow. Is the object a conductor or an insulator? Explain.

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**12.** Why should an electrician use rubber gloves while repairing an electric switch at your home? Explain.



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**13.** The handles of the tools like screwdrivers and pliers used by electricians for repair work usually have plastic or rubber covers on them. Can you explain why?



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