



PHYSICS

BOOKS - MBD

ELECTRICITY AND CIRCUITS

Example

1. Fill in the blank :

A device that is used to break an electric circuit is called



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2. Fill in the blank :

An electric cell has terminals.



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

Electric current can flow through metals.



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

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 statement:

Electric current can pass through a sheet of thermocol.



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



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7. Complete the drawing in fig. 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, if instead of safety pin we use an eraser?



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



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



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12. The handles of the tools like screw driver and pliers used by electricians for repair work usually have plastic or rubber covers on them.

Can you explain why?



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13. What are uses of electricity ?



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14. Where does the torch get electricity from?

Why do we need a switch in the torch?



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15. Where are electricity cells used ?



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16. Which is +ve terminal of an electric cell ?



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17. Which is -ve terminal of an electric cell ?

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18. How is electricity produced in a n electric cell ?

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19. When does an electric cell stop functioning ?



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20. What is a electric circuit?



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21. When does a bulb glow ?



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22. In which direction current flows in a circuit ?



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23. What is a switch ?



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24. Name five conductors.



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25. Name five conductors.



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26. Name any five insulators.



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27. Which metals are used to make wires ?



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28. Is our body a conductor or an insulator.



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29. What are uses of electricity ?



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30. How is electricity produced in a n electric cell ?



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31. Write down the structure of a torch bulb.



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32. In terms of band theory, what is the difference: between a conductor and an

insulator



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33. Why are metals used for making wires ?



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34. Pick out conductors and insulators from the following ?

Coin, corfk, Glass, Rubber, Keys, Pin, Plastic

scale, Wooden

blodck, Aluminium

foil,Candle,Sewing needle,Thermocol,Paper nad

Lead of pencil.



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35. Fill in the blank :

A device that is used to break an electric circuit is called

A. Electric cell

B. Switch

C. Electric bulb

D. None of these.

Answer:



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36. Fill in the blank :

An electric cell has terminals.

A. Three

B. One

C. Two

D. None of these.

Answer:



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37. Which metals are used to make wires ?

A. Rubbr

B. Aluminium

C. Plastic

D. None of these.

Answer:



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38. The handles of the tools like screw driver and pliers used by electricians for repair work usually have plastic or rubber covers on them.

Can you explain why?

A. Conductor

B. Insulator

C. Has current flowing in the opposite direction.

D. None of these.

Answer:



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39. A torch cell has negative terminal made of -

A. Copper

B. Zinc

C. Rubber

D. None of these.

Answer:



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40. In electric cell the source of current is -

A. Positive terminal

B. Negative terminal

C. Chemicals stored in it

D. None of these.

Answer:



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41. In an electric circuit the direction of current in a cell is-

A. from positive to negative terminal

B. from negative to positive terminal

C. for half time from positive to negative terminal and for otehr half time from neggative to positive terminal.

D. None of these.

Answer:



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42. On allowing current to flow in a fuse bulb, the bulb does not glow because -

A. filament breaks.

B. filament is bad conductor of current

C. filament is good conductor of electric
current

D. None of these.

Answer:



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43. A substance through which electric current can flow is-

- A. Conductor
- B. Insulator
- C. Electric circuit
- D. None of these.

Answer:



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44. Cell is a device used to convert-

- A. electrical energy into light energy
- B. magnetic energy into electric energy
- C. chemical energy into electrical energy
- D. None of these.

Answer:



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45. The filament of electric bulb is made of

..... .

A. Tungsten

B. Copper

C. Platinum

D. Aluminium.

Answer:



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