



PHYSICS

BOOKS - PEARSON IIT JEE FOUNDATION

THE ESSENCE OF ELECTRICITY

Example

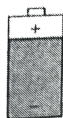
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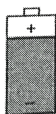
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2. Arrange the following components in a circuit diagram such that the bulb glows. (a) Cell 1 (b) Cell B (c) Bulb (d) Switch

(a) Cell 1



(b) Cell 2



(c) Bulb



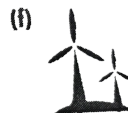
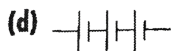
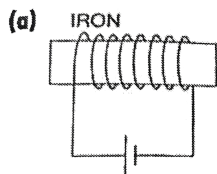
(d) Switch





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3. Name the following symbols :



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4. Match the following:

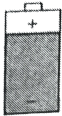
- | | | |
|--------------------------------|-----|--------------------------|
| 1. House hold power supply | () | (a) Insulators |
| 2. Primary cell | () | (b) Load |
| 3. Source of electrical energy | () | (c) Combination of cells |
| 4. Open circuit | () | (d) Rechargeable |
| 5. Rubber slippers | () | (e) Good conductor |
| 6. Secondary cell | () | (f) Bad conductor |
| 7. Iron | () | (g) A.C mains |
| 8. Thermocol | () | (h) Open switch |
| 9. Battery | () | (i) D.C. mains |
| 10. Bulb | () | (j) Button cell |



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(b) Cell 2



(c) Bulb

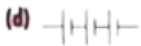
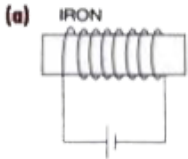


(d) Switch



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6. Name the following symbols:



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1. _____ are the terminals of a battery.



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2. In a dry cell _____ is used to separate cathode from anode.



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3. As a precaution, the source of electricity which should not be used while doing experiment is _____.



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4. The electricity meter in the domestic electric circuit measures electrical energy consumption in kilowatt Hours is called.....



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5. The filament of an electric bulb is made of tungsten.



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6. The filament of an electric bulb is made of tungsten.



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7. One unit means _____

A. 10 Wh

B. 1 kWh

C. 10 W

D. 10 MWh

Answer: B



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8. Hydroelectric power plant

- A. potential energy, electrical energy
- B. kinetic energy , potenital energy
- C. electrical energy, mechanical
- D. electrical energy, kinetic energy

Answer: A



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9. THERMAL POWER PLANT

- A. electrical energy, heat energy
- B. heat energy, electrical energy
- C. potential energy , kinetic energy
- D. kinetic energy, electrical energy

Answer: B



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10. In atomic and nuclear power plants, electrical energy is generated using the process of ____.

- A. Nuclear fission
- B. Nuclear fusion
- C. Neither nuclear fission nor nuclear fusion
- D. Both nuclear fusion and nuclear fission.

Answer: A



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11. The current supplied to our home is ____.

A. Alternating currents (AC)

B. Direct current (DC)

C. AC and DC

D. Only DC

Answer: A



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12. The material will act as good conductor of electricity if it has more number of ____ .

A. Free neutrons

B. Free protons

C. Free positrons

D. Free electrons

Answer: D

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13. Rechargeable cell/cells among them is/are ____.

- A. Dry cell
- B. Secondary cell
- C. Primary cell
- D. Both (a) and (c)

Answer: B

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14. ____ is/are used as electrical source/sources.

- A. Cell
- B. Bulb
- C. AC Mains

D. Both (a) and (c)

Answer: D



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15. Which of the following statements is/are incorrect ?

- A. Dry cells are used in torch lights.
- B. Cells , if not used for long time , gets discharged .
- C. Dry cells do not contain water in them.
- D. None of the above

Answer: D



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16. Find the odd one out from the following .

- A. Accumulators
- B. Nickel cadmium cells
- C. Alkaline cells
- D. Lithium -ion cells

Answer: C



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17. Anode means _____.

- A. Positive electrode
- B. Negative electrode
- C. Cathode
- D. Electrolyte

Answer: A



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18. All electrical gadgets in our house work using electricity from ____.

A. AC mains power supply

B. Cells

C. Batteries

D. None of the above

Answer: A



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19. Which of the following is the biggest source of electricity ?

A. Generator

B. Wind mill

C. Hydel power plant

D. Accumulator

Answer: C



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20. The heating effect of effect of electric current is used in ____.

A. Electric cell

B. Electric bell

C. Electric switch

D. Electric hairdryer

Answer: D



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21. The electrical componenet/components used in a circuit to offer variable resistance is/are ____.

- A. Resistance box
- B. Rheostat
- C. Resistance
- D. Both (a) and (b)

Answer: D



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22. Materials wich allow larger currents to fow through them are called

- A. Conductor
- B. Insulator
- C. Glass
- D. Plastic

Answer: A



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23. The symbol of electrical component whose longer vertical line represents positive terminal while short and thick line denotes negative terminal is _____.

- A. Cell
- B. Battery
- C. Key
- D. Fuse

Answer: A



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24. _____ is the device which is used to open or close the circuit .

A. Key/switch

B. Battery

C. Fuse

D. Cell

Answer: A



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25. Two or more cells joined together to form ____.

A. Inductor

B. Capacitor

C. Cell

D. Battery

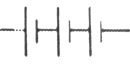
Answer: D



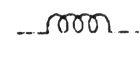
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26. Given the symbol of an electric fuse used in circuit diagrams.

A. (a) 

B. (b) 

C. (c) 

D. (d) 

Answer: A



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27. The safety device used in electric circuit is ____.

A. Cell

B. Fuse

C. Capacitor

D. Switch

Answer: B



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28. MCB stands for ____.

- A. Minute circuit breaker.
- B. Miniature capacity breaker
- C. Miniature circuit breaker
- D. Minimum current breaker

Answer: C



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29. Dry cell converts _____.

A. mechanical energy, electrical energy

B. chemical energy, electrical energy

C. electrical energy , light energy

D. kinetic energy , mechanical energy

Answer: B



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30. _____ effect of electric current is used in rice cooker.

A. Sound

B. Electrical

C. Lighting

D. Heating

Answer: D



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31. CFL stands for

- A. Common fluorescent light
- B. Compact fluorescent light
- C. Compact fluorescecent lamp
- D. Common fluorescent lamp

Answer: C



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32. What does LED stands for ?

- A. Light emitting device
- B. Light emitting diode
- C. Less electricity device

D. Long emission diode

Answer: B



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33. A person is sensing the electric shock means

- A. Current flow through him
- B. Charge flows through him
- C. Person is closing the circuit
- D. All the above

Answer: D



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34. Electric current is the flow of ____ .

A. Electrons

B. Protons

C. Neutrons

D. Positrons

Answer: A



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35. Fuse wire is made of an alloy of

A. Tin and lead

B. Copper and lead

C. Tin and copper

D. Lead and iron

Answer: A



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36. A fuse wire should have _____ .

- A. Low melting point and high resistance
- B. High melting point and high resistance
- C. Very high melting point and low resistance
- D. None of the above

Answer: A



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37. A wires used in electrical circuits should be covered with ____ .

- A. Conducting material
- B. Insulating material
- C. Metal

D. Semi-conductor

Answer: B



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38. The method to reduce consumption of electricity is _____.

- A. To use tube lights instead of CFL's
- B. Switching off the lights and fans while leaving
- C. By constructing houses with good ventilation
- D. All the above

Answer: D



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39. In which of the following is an electromagnet used

- A. Compass
- B. Loudspeaker
- C. heater
- D. Water tap

Answer: B



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40. Which of the following has a filament ?

- A. Bulb
- B. Battery
- C. Switch
- D. Wire

Answer: A



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Short Answer Types Questions

1. What are the uses of insulator ?



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2. Write few safety rules in using electricity.



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3. Is it necessary to save electricity? If so, suggest a few ways to save electricity.



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4. Electrical energy ____ through an open circuit.



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5. Write the functions of the following components.

(a) Key (b) Cell (c) Rheostat

(d) Ammeter (e) Voltmeter



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6. What is meant by a fused bulb ?



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7. Why are handles of electricity tools coated or covered with insulating materials ?



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8. Match the following columns .

Column A	Column B
(A) Conductor	(p) Plastic
(B) Insulator	(q) Negative terminal
(C) Cathode	(r) Positive terminal
(D) Anode	(s) Rechargeable
(E) Primary cell	(t) Non-rechargeable
(F) Secondary cell	(u) Copper



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9. How can one find out whether a bulb is fused or not ?



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10. Is there any standard in India based on which one can rely to buy any electric device. If so, what is it ?



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11. Complete the following sequence of circuit.

positive terminal of Cell → Wire → Switch → bulb → _____ → _____.



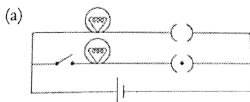
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12. Define closed circuit .

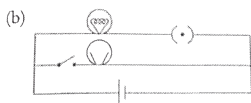


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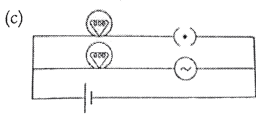
13. In which of the following circuit does current flow through the electric circuit.



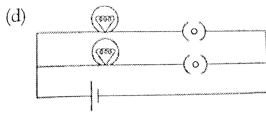
A.



B.



C.



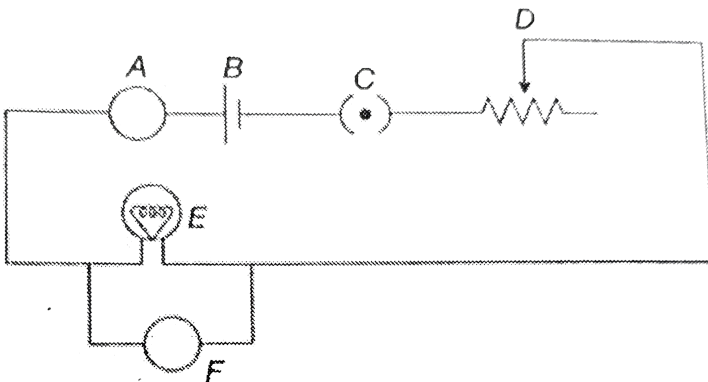
D.

Answer:



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14. Name the electrical component of the circuit which are labelled as A,B,C,D,E and F.



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15. Have you ever seen an electric cell ? If so, how many terminals does it have and how can one differentiate the terminals of a battery ?



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Concept Application

1. Mohan is a student of class 6 . One day , his science teacher taught him electricity . After that, he had many doubts about the electrical appliances and measuring devices that are used in his home . He observed that a wire from an electric pole is connected to a joule meter. A , fixed to the wall in the veranda, and from there to a main switch , and then to the main fuse, a refrigerator, a fan and a bulb are connected in parallel. Find out the appliance that consumes the least electric power among them.

A. Bulb

B. Fan

C. Main switch

D. Refreigerator

Answer: A



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2. Mention the effect of electric current with which the following electrical appliances works. Electric bell, Iron (box) , Hair dyer and Bulb

A. Electric bell-Magnetic effect, Iron box-Heating effect, Hair dyer-

Heating effect, Bulb-Heating effect.

B. Electric bell-magnetic effect, Iron box-Heating effect, Hair dryer-

Heating effect, Bulb -lighting effect

C. Electric bulb-Magnetic effect, Iron box-magnetic, Hair dryer-Heating

effect, Bulb -heating effect

D. Electric bell-Heating ,Iron box-Heating effect, hair dryer -Heating

effect, Bulb-Heating effect.

Answer: A



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3. Namitha is journalist. She used her pen camera to capture the photographs of a crime that took place on the way to her office. Which of the following is the source of the electrical energy which must be used in the said camera ?

A. Nickel-cadmium cells

B. Lead-acid batteries

C. Alkaline cells

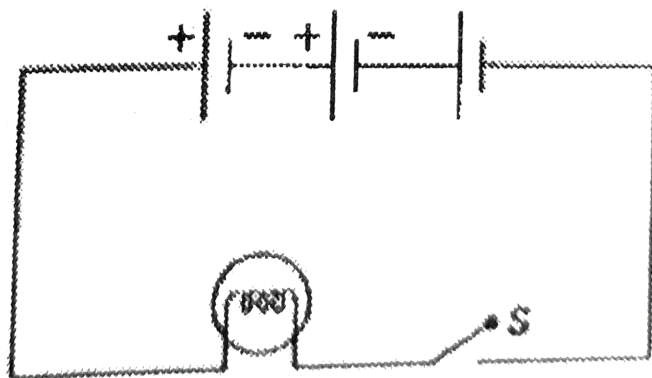
D. Button cells

Answer: D



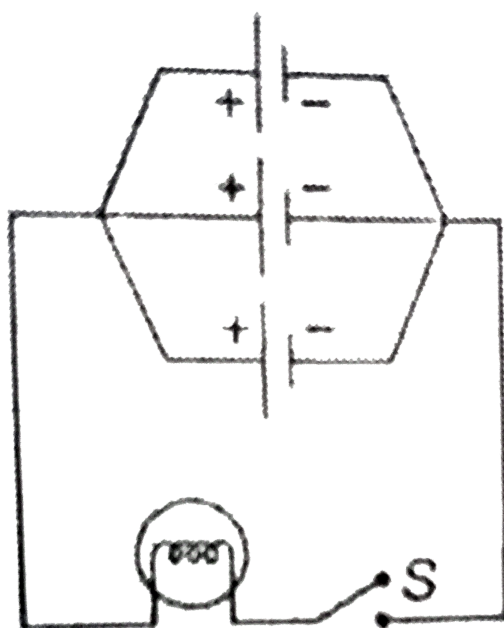
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(a)

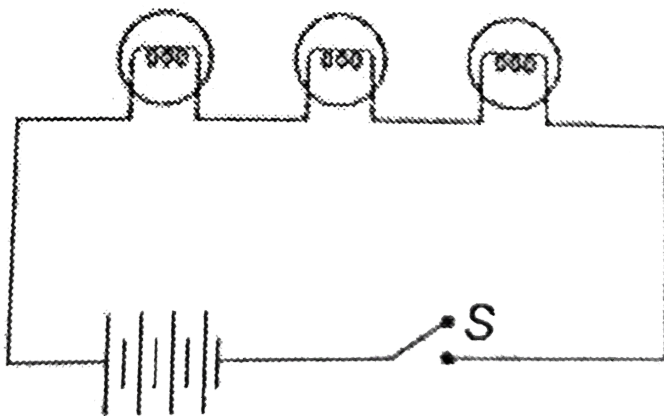


4.

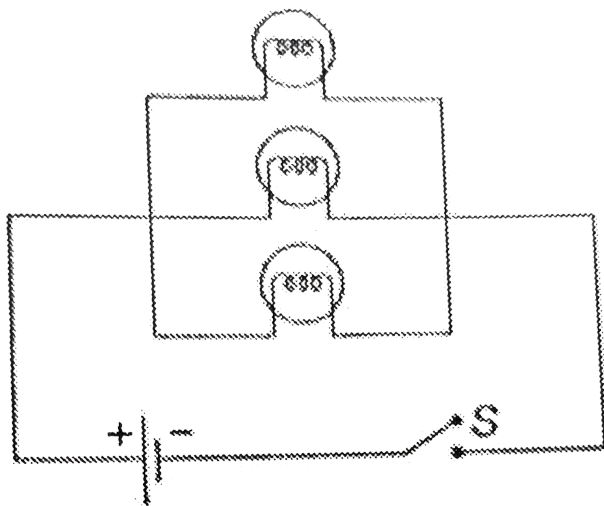
(b)



(c)



(d)



In which of the circuits given below above does the bulbs glow brighter ?

(Assume that all bulbs and cells are identical)

A. Circuit 'a'

B. Circuit 'b'

C. Circuit 'c'

D. Circuit 'd'

Answer: A



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5. Maan Singh and Junna Singh are brothers. One days , Junna and Maan Singh, as usual , used unauthorized electricity by connecting the wire directly to their nearby electric poles from their respective houses. But unfortunately, Juunu's house got short circuited. Maan Singh realized what could have happened and immediately intimated an electricity to set up a K Wh meter and started using electricity in the right way. What do you understand from this ?

A. Using authorized electric connection is safe.

B. Unauthorized usage of electrical energy might lead to short-circuiting .

- C. Fuses or MCBs used in the electric circuit at home protect the electrical appliances from any unexpected fluctuations in electric current
- D. All the above

Answer: D



Watch Video Solution

6. Mohan is a student of class 6 . One day , his science teacher taught him electricity . After that, he had many doubts about the electrical appliances and measuring devices that are used in his home . He observed that a wire from an electric pole is connected to a joule meter. A , fixed to the wall in the veranda, and from there to a main switch , and then to the main fuse, a refrigerator, a fan and a bulb are connected in parallel. Find out the appliance that consumes the least electric power among them.

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B. Fan

C. Main switch

D. Refrigerator

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A. Electric bell — Magnetic effect, Iron box-Heating effect, Hair dryer — Heating effect, Bulb - Heating effect

B. Electric bell - Magnetic effect, Iron box-Heating effect, Hair dryer - Heating effect, Bulb - lighting effect

C. Electric bell - Magnetic effect, Iron box-magnetic, Hair dryer - Heating effect, Bulb — Heating effect

D. Electric bell - Heating, Iron box- Heating effect, Hair dryer - Heating effect, Bulb -Heating effect

Answer: A



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8. Namitha is jounalist. She used her pen camera to capture the photographs of a crime that took place on the way to her office. Which of the following is the source of the electrical energy which must be used in the said camera ?

A. Nickel-cadmium cells

B. Lead-acid batteries

C. Alkaline cells

D. Button cells

Answer: D



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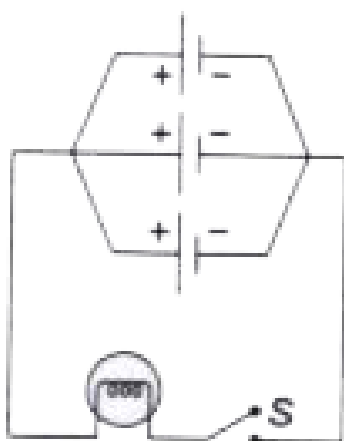


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• (a)

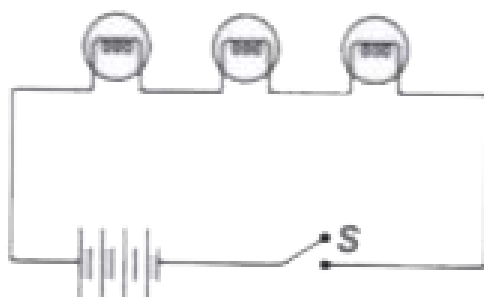


(b)

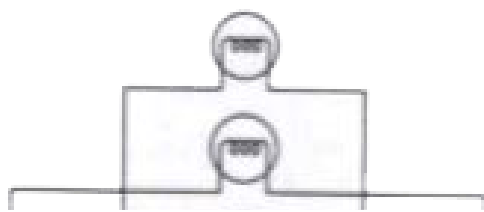


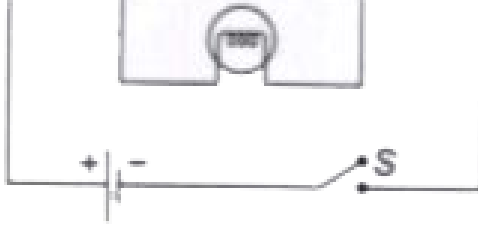
9.

(c)



(d)





In which of the circuits given above does the bulbs glow brighter?
(Assume that all bulbs and cells are identical)

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- B. Circuit 'b'
- C. Circuit 'c'
- D. Button cells

Answer: A



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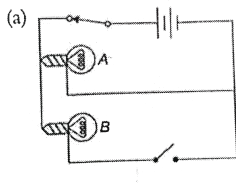
- A. Using authorized electric connection is safe.
- B. Unauthorized usage of electrical energy might lead to short-circuiting.
- C. Fuses or MCBs used in the electric circuit at home protects the electrical appliances from any unexpected fluctuations in electric current
- D. All the above

Answer: D

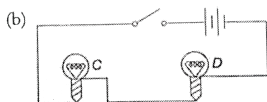


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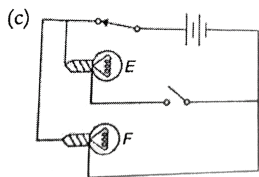
1. Find the closed part of circuit in the following circuits.



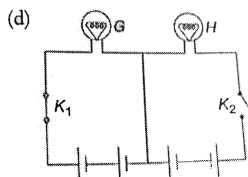
A.



B.



C.



D.

Answer:



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2. Cathode of a dry cell is ____.

A. Insulator

B. Iron

C. Graphite

D. Silver

Answer: C



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3. The brass cap of dry cell is

A. Negative terminal

B. Positive terminal

C. Cathode

D. Both (a) and (c)

Answer: B



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4. In a dry cell _____ is used to separate cathode from anode.

A. MnO_2

B. Charcoal

C. Both (a) and (b)

D. Only (b)

Answer: C



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5. Conventional current flows from a _____ to _____ terminal of battery in a closed circuit.

A. positive to negative

B. negative to positive

C. positive to positive

D. negative to negative

Answer: B



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6. Which of the following is the correct symbol of fuse ?

A. 

B. 

C. 

D. 

Answer: B



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7. Differentiate between primary and secondary cells.





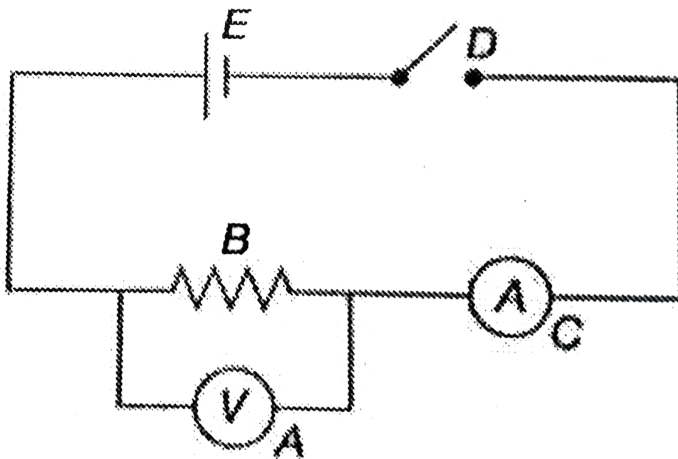
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8. Write the difference between conductor and insulator.



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9. Name the components labelled as A,B,C,D,E.



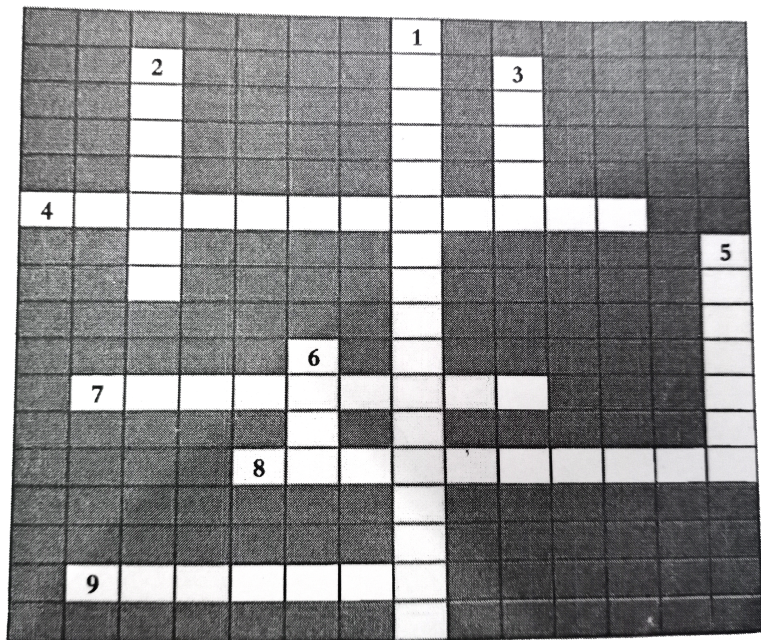
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10. What is inside the glass case of an incandescent bulb along with He-Ne gas ?



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Crossword



1.

Across

4. The cell which cannot be charge

7. The substance which allows electrical energy passes through it

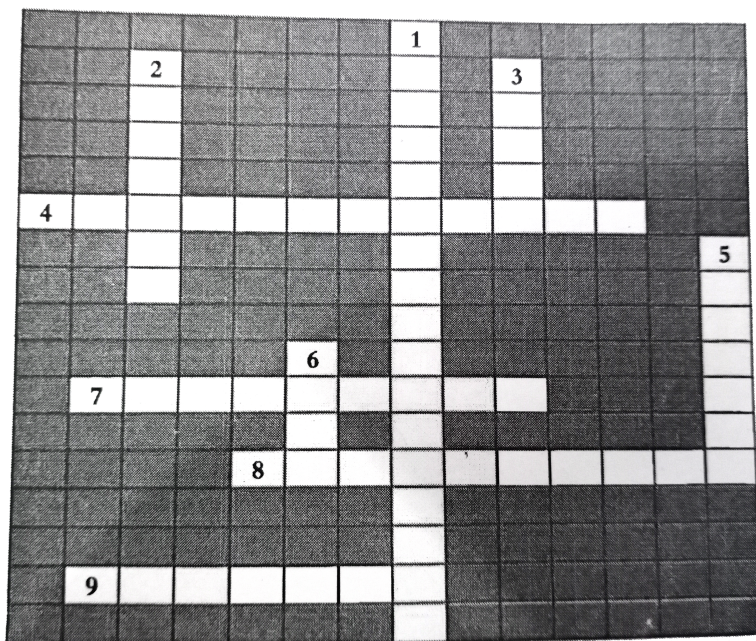
8. The property of conductor which opposes current

9. The path of electric energy flow is called



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D
1.
2.
3.
5.
6.



2.

Across

4. The cell which cannot be charge
7. The substance which allows electrical energy passes through it
8. The property of conductor which opposes current
9. The path of electric energy flow is called



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Test Your Concepts Very Short Answer Type Questions

1. _____ are the terminals of a battery.



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2. Dry cell is a



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3. As a precaution, the source of electricity which should not be used while doing experiment is _____.



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4. The electricity meter in the domestic electric circuit measures electrical energy consumption in kilowatt. Hours.



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5. The filament of a bulb is



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6. Tungsten is used for the manufacture of the filament of an electric bulb because



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7. One unit means _____

- A. 10 Wh
- B. 1 kWh
- C. 10 W
- D. 10 MWh

Answer: B



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8. Hydroelectric power plant

- A. potential energy, electrical energy
- B. kinetic energy, potential energy
- C. electrical energy, mechanical
- D. electrical energy, kinetic energy

Answer: A::C



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9. Thermal power plant

- A. electrical energy, heat energy
- B. heat energy, electrical energy
- C. potential energy, kinetic energy

D. kinetic energy, electrical energy

Answer: B



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10. In atomic and nuclear power plants, electrical energy is generated using the process of ____.

- A. Nuclear fission
- B. Nuclear fusion
- C. Neither nuclear fission nor nuclear fusion
- D. Both nuclear fusion and nuclear fission

Answer: A::C



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11. The current supplied to our home is _____.

- A. Alternating currents (AC)
- B. Direct current (DC)
- C. AC and DC
- D. Only DC

Answer: A::C



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12. The material will act as good conductor of electricity if it has more number of _____.

- A. Free neutrons
- B. Free protons
- C. Free positrons
- D. Free electrons

Answer: D



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13. Rechargeable cell/cells among them is/are ____.

- A. Dry cell
- B. Secondary cell
- C. Primary cell
- D. Both (a) and (C)

Answer: B



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14. ____ is/are used as electrical source/sources

- A. Cell

B. Bulb

C. AC Mains

D. Both (a) and (C)

Answer: D



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15. Which of the following statements is/are incorrect

A. Dry cells are used in torch lights.

B. Cells, if not used for long time, gets discharged.

C. Dry cells do not contain water in them.

D. None of the above

Answer: D



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16. Find the odd one out from the following .

- A. Accumulators
- B. Nickel cadmium cells
- C. Alkaline cells
- D. Lithium - ion cells

Answer: C



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17. Anode means _____.

- A. Positive electrode
- B. Negative electrode
- C. Cathode
- D. Electrolyte

Answer: A



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18. All electrical gadgets in our house work using electricity from ____.

- A. AC mains power supply
- B. Cells
- C. Batteries
- D. None of the above

Answer: A



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19. Which of the following is the biggest source of electricity ?

- A. Generator

- B. Wind mill
- C. Hydel power plant
- D. Accumulator

Answer: C



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20. Heating Effect of Electric current

- A. Electric cell
- B. Electric bell
- C. Electric switch
- D. Electric hairdryer

Answer: D



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21. The electrical componenet/components used in a circuit to offer variable resistance is/are ____.

- A. Resistance box
- B. Rheostat
- C. Resistance
- D. Both (a) and (b)

Answer: D



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22. Materials wich allow larger currents to fow through them are called

- A. Conductor
- B. Insulator
- C. Glass
- D. Plastic

Answer: A



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23. The symbol of electrical component whose longer vertical line represents positive terminal while short and thick line denotes negative terminal is _____.

- A. Cell
- B. Battery
- C. Key
- D. Fuse

Answer: A



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24. _____ is the device which is used to open or close the circuit .

A. Key/switch

B. Battery

C. Fuse

D. Cell

Answer: A



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25. Two or more cells joined together to form ____.

A. Inductor

B. Capacitor

C. Cell

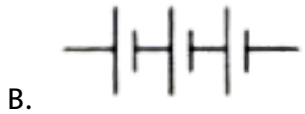
D. Battery

Answer: D



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26. _____ is the symbol of fuse.



Answer: A



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27. The safety device used in electric circuit is ____.

A. Cell

B. Fuse

C. Capacitor

D. Switch

Answer: B



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28. MCB stands for ____.

A. Minute circuit breaker

B. Miniature capacity breaker

C. Miniature circuit breaker

D. Minimum current breaker

Answer: C



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29. Dry cell converts _____.

- A. mechanical energy, electrical energy
- B. chemical energy, electrical energy
- C. electrical energy, light energy
- D. kinetic energy, mechanical energy

Answer: B



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30. _____ effect of electric current is used in rice cooker.

- A. Sound
- B. Electrical
- C. Lighting
- D. Heating

Answer: D



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31. CFL stands for

- A. Common fluorescent light
- B. Compact fluorescent light
- C. Compact fluorescent lamp
- D. Common fluorescent lamp

Answer: C



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32. What does LED stands for ?

- A. Light emitting device

- B. Light emitting diode
- C. Less electricity device
- D. Long emission diode

Answer: B



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33. A person is sensing the electric shock means

- A. Current flow through him
- B. Charge flows through him.
- C. Person is closing the circuit
- D. All the above

Answer: D



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34. Electric current is the flow of ____ .

- A. Electrons
- B. Protons
- C. Neutrons
- D. Positrons

Answer: A



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35. Fuse wire is made of an alloy of

- A. Tin and lead
- B. Copper and lead
- C. Tin and copper
- D. Lead and iron

Answer: A



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36. A fuse wire should have _____ .

- A. Low melting point and high resistance
- B. High melting point and high resistance
- C. Very high melting point and low resistance
- D. None of the above

Answer: A



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37. A wires used in electrical circuits should be covered with _____ .

- A. Conducting material

B. Insulating material

C. Metal

D. Semi-conductor

Answer: B



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38. The method to reduce consumption of electricity is ____.

A. To use tube lights instead of CFL's.

B. Switching off the lights and fans while leaving a room.

C. By constructing houses with good ventilation.

D. All the above

Answer: D



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39. In which of the following is an electromagnet used

- A. Compass
- B. Loudspeaker
- C. Heater
- D. Water tap

Answer: B



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40. Which of the following has a filament ?

- A. Bulb
- B. Battery
- C. Switch
- D. Wire

Answer:



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Test Your Concepts Short Answer Type Questions

1. What are the uses of insulator ?



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2. Write few safety rules in using electricity.



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3. Is it necessary to save electricity ? If so, suggest a few ways to save electricity.



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4. Electrical energy ____ through an open circuit.



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5. Write the functions of the following components.

(a) Key (b) Cell (c) Rheostat

(d) Ammeter (e) Voltmeter



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6. What is meant by a fused bulb ?



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7. Why are handles of electricity tools coated or covered with insulating materials ?



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8. Match the following columns.

Column A	Column B
(A) Conductor	(p) Plastic
(B) Insulator	(q) Negative terminal
(C) Cathode	(r) Positive terminal
(D) Anode	(s) Rechargeable
(E) Primary cell	(t) Non-rechargeable
(F) Secondary cell	(u) Copper



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9. How can one find out whether a bulb is fused or not ?



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10. Is there any standard in India based on which one can rely to buy any electric device. If so, what is it ?



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11. Complete the following sequence of circuit positive terminal of Cell →

Wire → Switch → bulb → ____ → ____.



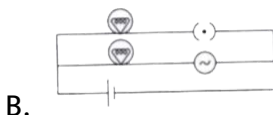
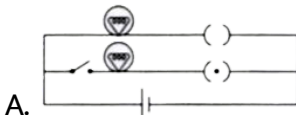
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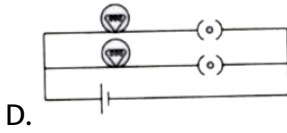
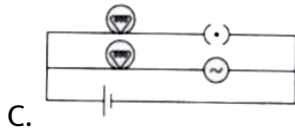
12. Define closed circuit .



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13. In which of the following circuit does current flow through the electric circuit.

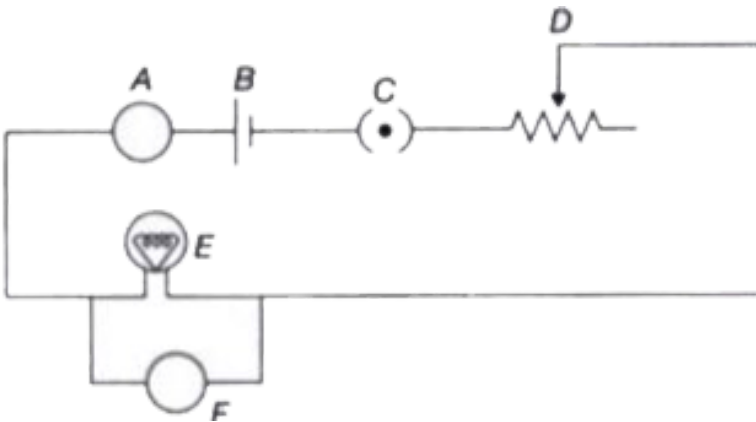




Answer:

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14. Name the electrical components of the circuit which are labelled as A, B, C, D, E and F



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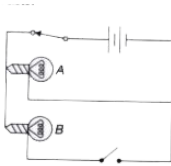
15. Have you ever seen an electric cell ? If so, how many terminals does it have and how can one differentiate the terminals of a battery ?



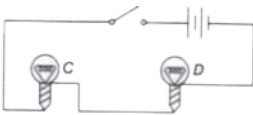
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Assessment Test Level 1

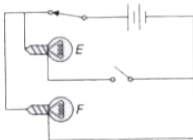
1. Find the closed part of circuit in the following circuits.



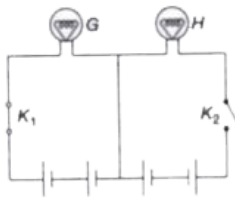
A.



B.



C.



D.

Answer:

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2. Cathode of a dry cell is ____.

A. Insulator

B. Iron

C. Graphite

D. Silver

Answer: C

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3. The brass cap of dry cell is

- A. Negative terminal
- B. Positive terminal
- C. Cathode
- D. Both (a) and (C)

Answer: B



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4. In a dry cell _____ is used to separate cathode from anode.

- A. MnO_2
- B. Chrcoal
- C. Both (a) and (b)
- D. Ony (b)

Answer: C



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5. Conventional current flows from a _____ to _____ terminal of battery in a closed circuit.

- A. positive to negative
- B. negative to positive
- C. positive to positive
- D. negative to negative

Answer: B



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6. Which of the following is the correct symbol for cobalt, CO or Co ?



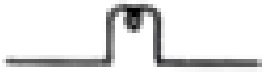
B.



C.



D.



Answer: B



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7. Differentiate between primary and secondary cells.



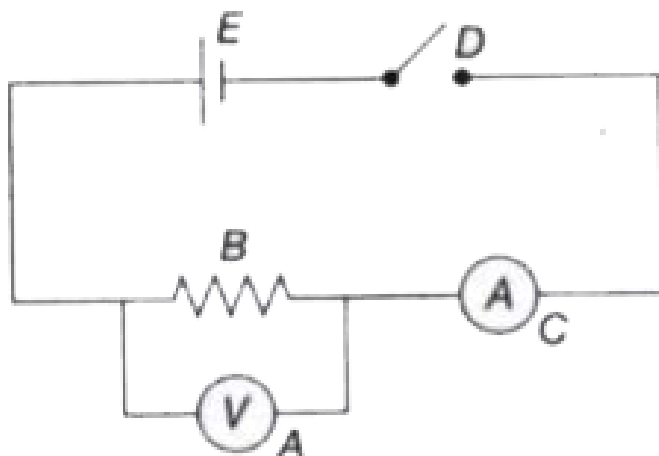
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8. Distinguish between conductors and insulators.



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9. Name the components labelled as A, B, C, D, E and F.



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10. What is inside the glass case of an incandescent bulb along with He-Ne gas ?

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