

CBSE Practice papers

**ELECTRICITY AND CIRCUITS**

class-6-Science    Number of Questions: 54

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**1**

When two or more cells are joined together, the combination is called a:

- Battery     Bulb     Power station     Terminal

**2**

An electric device which converts electric energy into light energy:

- Power station     Battery     Electric bulb     Switch

**3**

The complete path, from one terminal of the electric cell through the bulb and back to the other terminal of the electric cell, is called a:

- Filament     Electric switch     Circuit     Electric cell

**4**

An electric device which easily closes or opens an electric circuit:

- Bulb     Battery     Electric switch     Cable

**5**

Electric cell is:

- A positive terminal     A source of electricity     A negative terminal  
 The path travelled by the electricity

**6**

Materials through which electric current can flow are called:

- Insulators  Conductors  Capacitors  Generators

**7**

Which of the following is a conductor of electricity?

- Asbestos  Graphite  Mica  Rubber

**8**

What are the materials that do not allow current to pass through them called?

- Capacitors  Conductors  Transistors  Insulators

**9**

Which of the following is an insulator of electricity?

- Copper  Wax  Aluminum  Silver

**10**

Which of the following is not a part of an electric torch?

- Switch  Bulb  Electric cell  Tester

**11**

Which of the following is not a part of a dry cell?

- Carbon rod  Zinc casing  Bulb  Positive terminal

**12**

What is the source of energy for an electric torchlight?

- Switch  Filament  Lid  Electric cell

**13**

The device which is used to convert electric energy to light energy is:

- Loud speaker  Electric bulb  Mixer grinder  Transformer

**14**

The device which is used to convert electric energy to sound energy is:

- Fluorescent tubes    Tape recorder    CFL bulb    Vacuum

**15**

The device which is used to convert electric energy to mechanical energy is:

- Radio    Transistor    Electric bell    Electric lifts

**16**

The device which is used to convert electric energy to magnetic energy is:

- Transistors    Electromagnet    Transformers    Electric motors

**17**

The electricity we use at homes, in our factories is supplied from a:

- Transformer    Resistor    Power station    Battery

**18**

Pick the true statement from the following?

- We can plug many appliances into the same socket  
 We can touch electric switches or gadgets with wet hands  
 Unplug appliances before any repairs are done  
 We can fly kites, model airplanes near overhead power lines

**19**

Which of the following glows when electricity passes through it?

- Switch    Cell    Filament    Circuit

**20**

The metal cap in the middle of the upper end of the electric cell is its:

- Filament    Positive terminal    Negative terminal    Neutral terminal

**21**

The metal disc at the bottom end of the cell is its:

- Neutral cell
- Positive terminal
- Negative terminal
- Either positive or negative terminals

**22**

An unbroken path travelled by electricity is known as a:

- Electric switch
- Short circuit
- Open circuit
- Closed circuit

**23**

A bulb glows only in:

- Open circuit
- Closed circuit
- Both open and closed circuits
- Short circuit

**24**

Filament of a bulb is made up of:

- Copper
- Platinum
- Aluminium
- Tungsten

**25**

To prevent electric shocks, the metallic electrical wires are covered with:

- Aluminium
- Nickel
- Steel
- Plastic

**26**

Which of the following is not a conductor electricity?

- Tap water
- Metal wire
- Pure water
- Salt solution

**27**

Which of the following statements is not true?

- A bulb has two terminals
- Current flows from the positive terminal of a cell to its negative terminal
- Current flows only through a complete path
- Filament of a bulb is made up of copper

**28**

An electric cell converts:

- Chemical energy into electrical energy
- Chemical energy into thermal energy
- Electrical energy into magnetic energy
- Electrical energy into thermal energy

**29**

Which of the following statements is wrong?

- Air is a bad conductor of electricity
- An electric dry cell has a metal disc on one side
- A filament of a bulb is made of thick wire
- The cover of an electric wire is made up of an insulator

**30**

When a switch is off, the circuit becomes:

- Complete
- Open
- Closed
- Fused

**31**

Which of the following statements is not true?

- We use a conduction tester to test the strength of a material
- The two terminals of a cell should not be joined directly as chemical energy gets used up really fast
- When a bulb gets fused, its filament gets broken thereby breaking the circuit
- The metal cap is the positive terminal of the electrical cell

**32**

Pick the incorrect statement from the following?

- We should turn off main switch when there is a short circuit in our home
- We should never join the wires connected to two terminals of a cell
- Handles of electrical appliances are made up of insulators
- In a torch, cells are joined in a parallel arrangement

**33**

What happens to an electric bulb if there is a break in its electric circuit?

- It will get fused
- It doesn't glow
- It glows
- It gives a shock

**34**

An electrician use rubber gloves while repairing an electric switch because the gloves acts as:

- Indicator
- Conductor
- Insulator
- Capacitor

**35**

An electric cell produces electricity from the:

- Chemical stored in it    Charge stored in it    Mechanical energy stored in it  
 Thermal energy stored in it

**36**

In an electric circuit, the flow of electric current is from the:

- Negative to Positive terminals    Positive to negative terminals  
 Negative to neutral terminals    Any direction

**37**

A battery is:

- A single cell    A combination of cells in which cells are joined (+) to (-)  
 A combination of cells in which cells are joined (+) to (+)  
 A combination of cells in which cells are joined (-) to (-)

**38**

How many terminals are there in a dry cell?

- One    Two    Three    Four

**39**

Which of the following statements is true?

- Switch provides current to the circuit    Switch provides current to a bulb  
 Switch is used to open and close the circuit    Switch is to protect electric appliances

**40**

Which of the following devices do not require electricity?

- Television    Tape recorder    Bicycle    Refrigerator

**41**

A safety device that protects electrical appliances from a short circuit is called a live wire.

- True    False

42

The property of a fuse wire is:

- High resistance and high melting point    High resistance and low melting point  
 Low resistance and low melting point    Low resistance and high melting point

43

Which of the following groups of items contain only conductors?

- Copper, woolen cloth, graphite    Copper, graphite, silver  
 Sea water, tap water, distilled water    Rubber, copper, silver

44

Which of the following appliances works on the heating effect of current?

- Electric rice cooker    Electric bulb    Electric toaster    All the above

45

We generally use three different color wires while connecting any electric equipment. Which color wire gives us an electric shock when we touch it?

- Red    Black    Green    None of the above

46

Which type of water used in the batteries?

- Tap water    Sea water    Distilled water    Salt water

47

Which of the following is not a component of electric circuit?

- Electric cell    Wooden block    Connecting wire    Electric bulb

48

Which of the following statements is true?

- Air is a good conductor of electricity    Electric current can pass through a metal spoon  
 Solar cells convert light energy into electrical energy  
 All of the above statements are true

**49**

Handles of tools like screw drivers, pliers are covered with plastic or rubber because:

- They give a nice shape to handles    They are long lasting    They are conductors  
 They are insulators

**50**

In which of the following cases does a bulb light up?

- Wires from a cell are connected across the two terminals of the bulb  
 One of the wires is connected to a terminal of the bulb, while other wire is left free  
 When the bulb is connected to itself and the battery  
 When the wires of the cell are not connected to the bulb at all

**51**

If we join the two terminals of an electric cell directly through a wire, the chemical in the electric cell gets used up very fast and the cell will stop working.

- True    False

**52**

Carbon rod in a dry cell is surrounded by a mixture of:

- Paste of ammonium chloride    Zinc oxide and graphite  
 Manganese dioxide and charcoal    Carbon dioxide and Zinc oxide

**53**

Which of the following will help in glowing a bulb when placed in the circuit?

- Wooden stick    Metal spoon    Connection tester    Plastic clip

**54**

Which of the following statements is correct?

- A bulb has a filament and two terminals  
 The bulb with a broken filament is called a fused bulb  
 An electric bulb may get fused when its filament breaks    All the above are correct



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