

CLASS VI – SCIENCE – CHAPTER 12

ELECTRICITY AND CIRCUITS

Name:

Date:

- 01.** Combination of two or more cell in series is called
(a). Dynamo (b). Transistor (c). Battery (d). Insulator
- 02.** Filament of electric bulb is made up of
(a). Tungsten (b). Iron (c). Copper (d). Aluminium
- 03.** Which one is not a good conductor of electricity?
(a). Copper (b). Silver (c). Plastic (d). Graphite
- 04.** Closed and continues path of electric current is called
(a). Resistance (b). Circuit (c). Connector (d). Insulator
- 05.** A thin coil of metal, which glows when electricity is passed through it, is called
(a). Switch (b). Insulator (c). Filament (d). Bulb
- 06.** Which of these does not allow the current to pass through it?
(a). Bakelite rod (b). Copper rod (c). Brass rod (d). Iron rod
- 07.** Which of the appliances at your home does not run on electric current?
(a). Air conditioner (b). Gas burner (c). Mixer grinder (d). Television
- 08.** A device that prevents or allow the current to flow through it
(a). Switch (b). Motor (c). Conductor (d). Terminal
- 09.** An electric cell produces electricity from the
(a). Charge stored in it. (b). Chemical stored in it.
(c). Mechanical energy stored in it. (d). Kinetic energy stored in it.
- 10.** Direction of electric current in the circuit is from
(a). Negative to Positive terminals (b). Positive the negative terminals
(c). Negative to negative terminals (d). Positive to neutral terminals.
- 11.** Which of the following is not an insulator?
(a). Glass (b). Plastic (c). Graphite (d). Rubber
- 12.** Inside the torch two or more cells are placed with
(a). Positive – negative- positive –negative. (b). Positive- positive- negative- negative.
(c). Negative- negative- positive – positive. (d). Negative – positive- positive- negative.
- 13.** Which metal is less conductor of electricity
(a). Silver (b). Iron (c). Aluminum (d). Mercury
- 14.** Electricity is produced in power stations by
(a). Generators (b). Battery (c). Cell (d). Motor
- 15.** In bulbs electricity is converted into
(a). Light energy (b). Heat energy (c). Sound energy (d). Mechanical energy
- 16.** Electricity will not flow through circuit if
(a). Circuit is complete (b). Circuit is incomplete

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(c). There is a key in the circuit

(d). Connector is covered with plastic.

Q01. Match the following

(A). Column A

- (a). Conductor
- (b). Insulator
- (c). Resistor
- (d). Connector
- (e). Plug-key

Column B

- i. Used to join battery and gadgets.
- ii. Used to close and open the circuit.
- iii. Through which current pass easily.
- iv. Current does not pass at all.
- v. Obstruct the flow of current.

(B). Column A

- (a). Electric cell
- (b). Electric bulb
- (c). Metal wire
- (d). Plastic string
- (e). Terminals

Column B

- i. Positive and Negative ends of cell.
- ii. Bad conductor
- iii. Have two terminals.
- iv. Good conductor
- v. Have filaments.

(C). Column A

- (a). Torch
- (b). Refrigerator
- (c). Mixer-grinder
- (d). Fan
- (e). Television

Column B

- i. to make lassy and spice paste.
- ii. to see picture and hear sound.
- iii. to get air.
- iv. to get cold water and ice
- v. to get light.

(D). Column A

- (a). Heat energy
- (b). Sound energy
- (c). Magnetic energy
- (d). Light energy
- (e). Mechanical energy

Column B

- i. Electric motor
- ii. Electric bells
- iii. Radio
- iv. Electric Iron
- v. Bulb

Q02. Fill in the gaps with suitable words.

- (a). Combination of two or more cells is called -----.
- (b). A device used to break the electric circuit is known as -----.
- (c). Each cell has ----- terminals.
- (d). ----- is best conductor of electric current.
- (e). ----- is a non- metal that conduct electricity.
- (f). Electric bulb has a ----- that is connected to its terminals.
- (g). ----- do not allow electric current to pass through them.
- (h). The bulb glows only when ----- flows through the circuit.
- (i). Copper wire is a good ----- of electricity.

Q01. Name the following

- (a). Device used to measure the amount of current.
- (b). A piece of thin wire of high resistance, used in electric bulb.
- (c). A device which offers resistance to an electric current.

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- (d). A number of cells joined together.
- (e). Safety device used to protect us from electric shocks.

Q02. Write T for true statement and F for false statements.

- (a). Silver is a good conductor of electricity.
- (b). Filaments of bulb glows due to heating.
- (c). Electric current can pass through distilled water.
- (d). Cotton string can be used to complete the circuit.
- (e). Electricity is a form of energy.
- (f). In thermal power station coal is used to produce electricity.
- (g). Both terminals of cell are positively charged.
- (h). Inert gas is filled in bulb to prolong its life.
- (i). Flow of proton cause electric current.
- (j). Battery is combination of two or more cells.

Q03. Classify Conductor and Insulator from the followings.

Metal spoon, shoe lace, ball pen, hair clip, plastic ruler, comb, copper wire, cotton thread, nichrome.

Q04. Name any four devices in which electric cell are used.

Q05. What is electric circuit? What is the direction of current in the circuit?

Q06. Differentiate between conductor and insulator with example.

Q07. What is the purpose of using electric switch in the circuit?

Q08. Why electrician uses rubber gloves while repairing a electric supply line?

Q09. What do you mean by fused bulb? Why fused bulb do not glows?

Q10. What is a power station? Name a few types of power stations.

Q11. What is different between insulator and conductors? Give suitable example.

Q12. The handles of screwdrivers and pliers used by electrician for repair have plastic or rubber covering. Why?

Q13. Define conduction of electric current.

Q14. What do you mean by open and close circuit?

Q15. What are two things required to make electric current flow in a circuit?

Q16. Name the following:

- (a). An electric gadget to break the electric circuit.
- (b). An alloy used to make filaments of a bulb.
- (c). A combination two or more cells.
- (d). The source of electricity.
- (e). The two terminals of a cell.

Q17. Will bulb glow in the circuit drawn below? If not explain why it will not glow?

Q18. Find the direction of electric current in both the circuit if both bulbs are glowing.

