



KINETICS

We Nurture The Future

IIT-JEE | Medical | Foundations

Electric Current and Its Effects

Question 1.

Bulbs, wires, cells and switches are known as the of a circuit.

- (a) element
- (b) switch
- (c) filament
- (d) none of these

▼ [Answer](#)

- (a) element

Wires, cells, switches, bulbs are element of a circuit.

Question 2.

An element measure the flowing an electric current is:

- (a) voltmeter
- (b) filament
- (c) circuit
- (d) ammeter

▼ [Answer](#)

- (d) ammeter

An ammeter measure the flowing electric current.

Question 3.

An element measure the potential difference between two points in an electric circuit is:

- (a) voltmeter
- (b) filament
- (c) circuit
- (d) ammeter

▼ [Answer](#)

- (a) voltmeter

Voltmeter measure the difference of two points.

Question 4.

Electric current has energy called:

- (a) voltmeter
- (b) filament
- (c) electrical energy
- (d) none of these

▼ [Answer](#)

- (c) electrical energy

Electric current has electric energy.

Question 5.

The magnetic material around the coil is wound is called:

- (a) magnetic substance
- (b) core
- (c) soft iron
- (d) none

▼ [Answer](#)

- (b) core

The magnetic material around the coil is wound is core.

Question 6.

Very strong electromagnets are used for lifting:

- (a) fans
- (b) washing machines
- (c) heavy iron pieces
- (d) none of these

▼ [Answer](#)

- (c) heavy iron pieces

Very strong electromagnet is used for lifting iron pieces.

Question 7.

A safety device that cuts off the current in a circuit if a sudden heavy current starts flowing in it is:

- (a) fuse
- (b) ammeter
- (c) solenoid
- (d) none of these

▼ [Answer](#)

- (a) fuse

Fuse is a safety device that cuts off the current.

Question 8.

A cylindrical coil of current carrying wire is:

- (a) voltmeter
- (b) ammeter
- (c) fuse
- (d) solenoid

▼ [Answer](#)

- (d) solenoid

A solenoid is a cylindrical coil of wire.

Question 9.

A coil of insulated current- carrying wire wound around a piece of a magnetic substance is:

- (a) voltmeter
- (b) magnetic coil
- (c) electromagnet
- (d) none of these

▼ [Answer](#)

(c) electromagnet

An electromagnet is a coil of insulated wire.

Question 10.

Which of these is not circuit element ?

- (a) potential difference
- (b) voltmeter
- (c) resistor
- (d) battery

▼ [Answer](#)

(c) resistor

Resistor is not a circuit element.

Question 11.

Which of these appliances does not use on electro magnet?

- (a) washing
- (b) refrigerator
- (c) room heater
- (d) electric bell

▼ [Answer](#)

(c) room heater

Room heater does not use an electro magnet.

Question 12.

The fuse wire:

- (a) never breaks
- (b) breaks on shorting of wire
- (c) breaks on flowing of excessive current
- (d) both (b) and (c)

▼ [Answer](#)

(d) both (b) and (c)

Always fuse breaks on shorting of wire and flowing excessive current.

Question 13.

Which of the following liquid is bad conductor of electricity:

- (a) salted water
- (b) orange juice
- (c) lemon juice
- (d) none of these

▼ Answer

(d) none of these
None of these Liquid is bad conductor of electricity.
A circuit diagram represent on electrical circuit.

Question 14.

Which of the following substance is conductor of electricity:

- (a) rubber
- (b) paper
- (c) nails
- (d) plastic

▼ Answer

(c) nails
Nails is conductor of electricity.

Question 15.

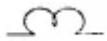
The electric current which is broken at some point is called:

- (a) open circuit
- (b) closed circuit
- (c) short circuit
- (d) long circuit

▼ Answer

(a) open circuit
Open circuit is broken at some point.

Question 16.

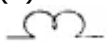


symbol represents:

- (a) cell
- (b) battery
- (c) closed circuit
- (d) open key

▼ Answer

(c) closed circuit



This symbol represents closed key.

Question 17.

A circuit diagram represent on:

- (a) switch
- (b) electrical circuit
- (c) cells
- (d) none of these

▼ Answer

(a) switch
A circuit diagram represent on electrical circuit.

Question 18.

A control consisting of a electrical device for making or breaking or changing the connections in a circuit is:

- (a) a switch
- (b) a key
- (c) both (a) and (b)
- (d) none of these

▼ Answer

(c) both (a) and (b)
Both (a) and (b) are control consisting device of electricsl.

Question 19.


 symbol represents:

- (a) electric bulb
- (b) electric cell
- (c) battery
- (d) wire

▼ Answer


(b) electric cell
Electrical cell represents  symbol.

Question 20.

 symbol represents:

- (a) wire
- (b) battery
- (c) cell
- (d) switch in 'ON' position

▼ Answer

(d) switch in 'ON' position
 symbol represents switch in 'ON' position.

Question 21.

 symbol represents:

- (a) wire
- (b) cell
- (c) bulb
- (d) battery

▼ [Answer](#)

(a) wire
 symbol represents wire.

Question 22.

Such a combination of two or more cells is called :

- (a) wire
- (b) cell
- (c) bulb
- (d) battery

▼ [Answer](#)

(d) battery
Combination of two or more cells is called battery.

Question 23.

The batteries used in tractors, trucks and inverter are also made from:

- (a) cells
- (b) wire
- (c) battery
- (d) none of these

▼ [Answer](#)

(a) cells
The batteries used in tractors, trucks are also made from cells.

Question 24.

The positive terminal of one cell is connected to the:

- (a) positive terminal
- (b) negative terminal
- (c) wire
- (d) bulb

▼ [Answer](#)

(b) negative terminal
The positive terminal of one cell is connected to the negative terminal.

Question 25.

The bulb glows as soon as the switch is moved to the:

- (a) 'ON' position
- (b) 'OFF' position

- (c) both (a) and (b)
- (d) none of these

▼ [Answer](#)

- (a) 'ON' position

The bulb glows as soon as the switch is 'ON' position.

Question 26.

The electric current flows from the end of cell marked '+' called the:

- (a) negative terminal
- (b) positive terminal
- (c) electric current
- (d) none of these

▼ [Answer](#)

- (d) none of these

The cell marked '+' is called positive terminal.

Question 27.

Through the metal wires to the end marked '-' called the:

- (a) bulb
- (b) positive terminal
- (c) battery
- (d) negative terminal

▼ [Answer](#)

- (d) negative terminal

The marked '-' is called the negative terminal.

Question 28.

The bulb has a thin wire called:

- (a) battery
- (b) cell
- (c) filament
- (d) none of these

▼ [Answer](#)

- (b) cell

The bulb has thin wire called filament.

Question 29.

A fan used electric current to rotate to blow:

- (a) air
- (b) current
- (c) wire
- (d) none of these

▼ Answer

(a) air

A fan uses electric current to rotate to blow air.

Match the column A with column B:

Question 1.

Column-A	Column-B
(a) Ordinary magnet	(i) U-shaped iron rod
(b) Hammer	(ii) Soft iron rod
(c) Electromagnet	(iii) Steel and armature
(d) Armature	(iv) Permanent magnetism

▼ Answer

Column-A	Column-B
(a) Ordinary magnet	(iv) Permanent magnetism
(b) Hammer	(iii) Steel and armature
(c) Electromagnet	(i) U-shaped iron rod
(d) Armature	(ii) Soft iron rod

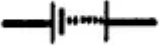
Question 2.

Column-A	Column-B
(a) MCB	(i) Battery
(b) Battery	(ii) The bulb will not glow
(c) Two or more cells	(iii) Tractors, trucks
(d) 'OFF' position	(iv) Miniature Circuit Breaker

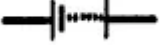
▼ Answer

Column-A	Column-B
(a) MCB	(iv) Miniature Circuit Breaker
(b) Battery	(iii) Tractors, trucks
(c) Two or more cells	(i) Battery
(d) 'OFF' position	(ii) The bulb will not glow

Question 3.

Column-A	Column-B
(a) Electromagnet	(i) Battery
(b) Electric bell	(ii) Attracted piece of iron
(c) Longer Line	(iii) Electromagnet
(d) 	(iv) Positive terminal

▼ Answer

Column-A	Column-B
(a) Electromagnet	(ii) Attracted piece of iron
(b) Electric bell	(iii) Electromagnet
(c) Longer Line	(iv) Positive terminal
(d) 	(i) Battery

State the following statements are True or False:

Question 1.

The fuse wire never breaks.

▼ Answer

False

Question 2.

Longer line in the symbol for a cell represents its negative terminals.

▼ Answer

False

Question 3.

To make a battery of two cells, the negative terminal of one cell is connected to the negative terminal of other cell.

▼ Answer

False

Question 4.

An electromagnet attracted a table of wood.

▼ Answer

False

Question 5.

An electric bell has not an electromagnet.

▼ [Answer](#)

False

Question 6.

When the electric current through the fuse exceeds a certain limit, the fuse wire melts and break.

▼ [Answer](#)

True

Question 7.

Plastic is not a magnetic substances.

▼ [Answer](#)

True

Question 8.

A key or an electric switch is a control consisting of an electrical device for changing the connections.

▼ [Answer](#)

True

Question 9.

The amount of heat depends on its length, thickness, length in a wire.

▼ [Answer](#)

True

Question 10.

Mans Christian was the first person to notice the deflection of compass needle.

▼ [Answer](#)

True

Question 11.

The electrical circuit which is broken at some point is called short circuit.

▼ [Answer](#)

False

Question 12.

Plastic is the best conductor of electricity.

▼ [Answer](#)

False

Fill in the blanks:

Question 1.

The deposition of a layer of metal on some other metal is called

▼ [Answer](#)

electroplating

Question 2.

A combination of two or more cells is called

▼ [Answer](#)

battery

Question 3.

The terminal of one cell is connected to the negative terminal of the next cell.

▼ [Answer](#)

positive

Question 4.

Bulb when the circuit is complete.

▼ [Answer](#)

glows

Question 5.

..... is a device used to prevent any change being caused to circuit and electric appliances.

▼ [Answer](#)

Fuse

Question 6.

..... is a coil of wire which gets heated up when electric current is passed through it.

▼ [Answer](#)

Element

Question 7.

Electromagnet is a magnetism.

▼ [Answer](#)

temporary

Question 8.

The wastage of electricity by a bulb can be reduced by using tube lights.

▼ [Answer](#)

fluorescent
