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Ex: 1

- 1) Charles Francois was the first to make clear the two different types of electric charge: positive and negative.
- 2) Benjamin's famous experiment proved that the atmospheric electricity that cause the phenomena of lightning and thunder is ~~not~~ identical with the electrostatic charge on a Leyden jar.
- 3) Priestley demonstrated that an electric charge distributes itself uniformly over the surface of a hollow metal sphere, and that no charge

and no electric field of force exists within such a sphere

- 4) The Italian physicists Luigi Galvani and Alessandro Volta conducted the first important experiments in electrical currents.
- 5) An important contribution to the study electricity in the 19th century was the work of the British physicist James Maxwell.
- 6) Electricity is a form of energy.
- 7) The Dutch physicist Lorentz first advanced the electron theory, which is the basis of modern electrical theory in 1892.

8) The widespread use of electricity as a source of power is largely due to the work of such pioneering American engineers and inventors as Thomas Alva Edison, Nikola Tesla, and Charles Proteus Steinmetz.

10) In the world there are negative and positive particles.

11) The Danish scientist Hans Christian Oersted demonstrated the fact that a magnetic field exists around an electric current flowing wire.

12) The resistance in the network limits the amount of current.

14) When an electric current passes through the wire, the temperature of the wire increases.

15) About 1840 Joule demonstrated that electric circuits obey the law of the conservation of energy.

Ex: 2

- 1) There are two types of electric charges, positive and negative.
- 2) His experiments proved that atmospheric electricity, which causes the phenomenon of lightning and thunder, is identical to the electrostatic charge of the "Leyden jar".
- 3) The force between electric charges varies inversely with the square of the distance.

between the charges.

- 4) This scientist made a great contribution to the development of the doctrine of electricity.
- 5) Electricity is a form energy.
- 6) Electrical circuits obey the laws of conservation of energy.
- 7) Properties of electromagnetic waves.
- 8) The widespread use of electricity as an energy source occurred at the beginning of the last century.
- 9) Equal and oppositely charged bodies are connected to each other by a metal conductor.

- 10) The flow of electrons from a negatively charged body to a positively charged body.
- 11) The flow of electrons from a point with a lower potential to a point with a higher potential.
- 12) The resistance in the network limits the amount of current.
- 13) Ohm's law can be expressed as the following algebraic equation.
- 14) When an electric current passes through the wire, the temperature of the wire increases.
- 15) When current electrons collide with conductor atoms, energy is generated.
- 16) The compass needle located next to the wire will be deflected in the direction