

Pioneers of Electricity

Electrical Engineering · Answer Key · 18 Questions

1. Who is credited with the invention of the first practical incandescent light bulb?

- A) Nikola Tesla
- B) Thomas Edison**
- C) Alessandro Volta
- D) Michael Faraday

2. Which invention by Guglielmo Marconi revolutionized long-distance communication?

- A) The Telegraph
- B) The Telephone
- C) The Radio**
- D) The Transistor

3. Alessandro Volta is best known for inventing which of the following?

- A) The Battery**
- B) The Electric Motor
- C) The Transformer
- D) The Capacitor

4. Who formulated the laws of electromagnetism known as Maxwell's equations?

- A) James Clerk Maxwell**
- B) Andre-Marie Ampere
- C) Georg Ohm
- D) Heinrich Hertz

5. What device did Michael Faraday invent that serves as the foundation for modern electric power generation?

- A) The Vacuum Tube
- B) The Electric Generator**
- C) The Resistor
- D) The Integrated Circuit

6. Which scientist is credited with the discovery of electromagnetic induction?

- A) Michael Faraday**
- B) Thomas Edison
- C) Benjamin Franklin
- D) Alexander Graham Bell

7. Who is the inventor famously associated with the development of the alternating current (AC) electrical system?

A) Thomas Edison

B) Nikola Tesla

C) George Westinghouse

D) Samuel Morse

8. The first practical telephone was patented in 1876 by whom?

A) Alexander Graham Bell

B) Elisha Gray

C) Thomas Watson

D) Antonio Meucci

9. Which unit of electrical resistance is named after a German physicist?

A) Volt

B) Ampere

C) Ohm

D) Watt

10. What was the first electronic general-purpose digital computer?

A) ENIAC

B) UNIVAC

C) Apple I

D) IBM 701

11. Who demonstrated the existence of radio waves in 1887?

A) Heinrich Hertz

B) Guglielmo Marconi

C) James Clerk Maxwell

D) Nikola Tesla

12. Which material was used in the first point-contact transistor invented at Bell Labs?

A) Silicon

B) Germanium

C) Copper

D) Aluminum

13. Who is known for his work in the early development of the electric motor?

A) Michael Faraday

- B) Nikola Tesla
- C) Thomas Edison
- D) James Watt

14. The 'Leyden jar', an early form of a capacitor, was invented in which country?

A) United Kingdom

B) Netherlands

- C) France
- D) United States

15. What invention by Joseph Henry laid the groundwork for the electric telegraph?

A) The Relay

- B) The Transformer
- C) The Diode
- D) The Rectifier

16. Who invented the vacuum tube diode in 1904?

A) John Ambrose Fleming

- B) Lee de Forest
- C) William Shockley
- D) Robert Noyce

17. What was the primary purpose of the first successful submarine telegraph cable laid in 1866?

A) Connecting Europe and America

- B) Connecting London and Paris
- C) Connecting Japan and China
- D) Connecting India and Australia

18. Which scientist discovered that an electric current creates a magnetic field?

A) Hans Christian Oersted

- B) Andre-Marie Ampere
- C) Charles-Augustin de Coulomb
- D) Georg Ohm