

Pioneers of Electricity

Electrical Engineering · Practice Test · 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