

Name _____

Nikola Tesla: A Visionary Inventor's Legacy

Short Answer Key

1. Nikola Tesla's invention of the alternating current (AC) induction motor allowed electricity to be generated and transmitted over long distances efficiently, making it practical for powering homes and industries.
2. Tesla's work on wireless communication and radio technology laid the foundation for modern wireless communication systems and radio broadcasting, enabling information to be transmitted over long distances without the need for physical wires.
3. Nikola Tesla faced challenges such as financial difficulties and disputes over patents. He overcame them by maintaining his determination and innovative spirit, continuing to develop groundbreaking ideas and inventions.
4. The Tesla coil is a high-frequency transformer that played a crucial role in radio transmission and wireless communication. It generated high-voltage, low-current electricity, and was essential in the development of radio technology.
5. Nikola Tesla is considered a visionary inventor due to his forward-thinking ideas, such as wireless energy transmission and renewable energy sources. His legacy continues to influence modern technology in areas such as wireless communication, renewable energy, and electric power distribution.

