⚡ **Quiz: Pioneers of Electromagnetism & Electromechanics**

Student Name: _____ **Class:** _____

Instructions: Read the technical achievement and choose the correct scientist.

1. **Who discovered that an electric current in a wire creates a magnetic field by observing a compass needle?** a) Michael Faraday b) Hans Christian Ørsted c) André-Marie Ampère d) James Clerk Maxwell
2. **The SI unit for measuring electric current (A) is named after which scientist?** a) Hans Christian Ørsted b) James Clerk Maxwell c) André-Marie Ampère d) Michael Faraday
3. **Which scientist discovered "Electromagnetic Induction," the principle used to generate electricity?** a) Michael Faraday b) André-Marie Ampère c) Hans Christian Ørsted d) James Clerk Maxwell
4. **Who wrote the four mathematical equations that unified electricity, magnetism, and light?** a) Hans Christian Ørsted b) Michael Faraday c) André-Marie Ampère d) James Clerk Maxwell
5. **When you use a transformer in the workshop, you are applying the induction discovery of:** a) Michael Faraday b) Hans Christian Ørsted c) James Clerk Maxwell d) André-Marie Ampère
6. **Who is known as the "Newton of Electricity" for his mathematical work on electrodynamics?** a) Michael Faraday b) André-Marie Ampère c) Hans Christian Ørsted d) James Clerk Maxwell
7. **This scientist's work directly led to the invention of the electric motor:** a) James Clerk Maxwell b) André-Marie Ampère c) Michael Faraday d) Hans Christian Ørsted
8. **Which scientist predicted the existence of radio waves through his theoretical work?** a) Hans Christian Ørsted b) James Clerk Maxwell c) Michael Faraday d) André-Marie Ampère
9. **Who demonstrated that two parallel wires attract or repel each other depending on the current direction?** a) André-Marie Ampère b) Michael Faraday c) Hans Christian Ørsted d) James Clerk Maxwell
10. **The discovery that "Magnetism can create Electricity" (the reverse of Ørsted's discovery) belongs to:** a) André-Marie Ampère b) James Clerk Maxwell c) Michael Faraday d) Hans Christian Ørsted
11. **Whose discovery proved that electricity and magnetism are not separate forces, but one single force?** a) Hans Christian Ørsted b) André-Marie Ampère c) Michael Faraday d) James Clerk Maxwell
12. **In a modern power plant, the generators work thanks to the principles established by:** a) Hans Christian Ørsted b) Michael Faraday c) André-Marie Ampère d) James Clerk Maxwell

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