

Name _____

Quantum Computing's Ethical and Societal Impact

Multiple Choice Questions

1. What is one of the ethical concerns related to quantum computing?
 - a) Decreased scientific advancements
 - b) Privacy concerns due to potential encryption breaches
 - c) Reduced access to technology
 - d) Enhanced data protection

2. How does quantum computing affect data privacy?
 - a) It improves data security and protection.
 - b) It has no impact on data privacy.
 - c) It raises concerns about data privacy.
 - d) It reduces the need for data encryption.

3. What is a potential societal implication of quantum computing?
 - a) Increased job opportunities in traditional industries
 - b) A decrease in scientific discoveries
 - c) Advancements in AI and machine learning
 - d) Higher carbon emissions

4. How can the digital divide be exacerbated by quantum computing?
 - a) By reducing the complexity of quantum technology
 - b) By prioritizing equitable access to quantum resources
 - c) By increasing the cost and complexity of technology
 - d) By reducing data privacy concerns

5. Why is ethical education important in the context of quantum computing?
 - a) To encourage job displacement
 - b) To decrease awareness about technology
 - c) To teach responsible research and development practices
 - d) To reduce access to quantum resources

