Quantum Physics History and Constants

Quantum Physics · Answer Key · 8 Questions

1. Which physicist introduced the concept of energy quanta in 1900?

A) Max Planck
B) Albert Einstein
C) Niels Bohr
D) Erwin Schrödinger

2. In which year was Albert Einstein awarded the Nobel Prize in Physics for his explanation of the photoelectric effect?

A) 1905
B) 1915
C) 1921
D) 1935

3. What is the approximate value of Planck's constant (h) in joule-seconds?

A) 6.63 × 10^-34
B) 3.00 × 10^8
C) 1.60 × 10^-19
D) 9.11 × 10^-31

4. Which Danish physicist introduced the quantum model of the atom in 1913?

A) Ernest Rutherford
B) Niels Bohr
C) J.J. Thomson
D) Werner Heisenberg

5. Who formulated the Uncertainty Principle in quantum mechanics in 1927?

A) Werner Heisenberg
B) Louis de Broglie
C) Paul Dirac
D) Wolfgang Pauli

6. Which Austrian physicist formulated the wave equation for quantum mechanics in 1926?

A) Erwin Schrödinger
B) Max Born
C) Richard Feynman
D) Satyendra Nath Bose

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7. What is the intrinsic spin value of an electron?

A) 0
B) 1/2
C) 1
D) 2

8. In 1924, which French physicist proposed that moving matter has wave-like properties?

A) Marie Curie
B) Louis de Broglie
C) Henri Becquerel
D) Pierre Curie

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