

Quantum Physics History and Constants

Quantum Physics · Practice Test · 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

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