

Milestones in Advanced Physics

History Of Physics · Practice Test · 20 Questions

1. Who is credited with formulating the laws of motion and universal gravitation?

- A) Isaac Newton
- B) Albert Einstein
- C) Niels Bohr
- D) Max Planck

2. In which year did Albert Einstein publish his theory of special relativity?

- A) 1900
- B) 1905
- C) 1915
- D) 1925

3. Which scientist discovered the electron in 1897?

- A) Ernest Rutherford
- B) J.J. Thomson
- C) James Chadwick
- D) Enrico Fermi

4. Who received the Nobel Prize in Physics for explaining the photoelectric effect?

- A) Werner Heisenberg
- B) Erwin Schrödinger
- C) Albert Einstein
- D) Richard Feynman

5. Marie Curie was the first person to win Nobel Prizes in two different scientific fields: Physics and what else?

- A) Biology
- B) Mathematics
- C) Chemistry
- D) Medicine

6. What subatomic particle did James Chadwick discover in 1932?

- A) Proton
- B) Electron
- C) Neutron
- D) Positron

7. Who developed the planetary model of the atom in 1913?

- A) Niels Bohr
- B) John Dalton
- C) Louis de Broglie
- D) Wolfgang Pauli

8. Which physicist is known for the famous uncertainty principle?

- A) Max Born
- B) Werner Heisenberg
- C) Paul Dirac
- D) Enrico Fermi

9. Who was the first woman to be awarded a Nobel Prize in Physics?

- A) Rosalind Franklin
- B) Lise Meitner
- C) Marie Curie
- D) Ada Lovelace

10. The Manhattan Project, which produced the first nuclear weapons, was led by which physicist?

- A) Robert Oppenheimer
- B) Leo Szilard
- C) Edward Teller
- D) Hans Bethe

11. Which scientist is famous for his work on the development of the quantum theory of light?

- A) Max Planck
- B) Lord Kelvin
- C) Michael Faraday
- D) James Clerk Maxwell

12. Who proposed the existence of antimatter in 1928?

- A) Paul Dirac
- B) Richard Feynman
- C) Murray Gell-Mann
- D) Steven Weinberg

13. What is the name of the constant represented by the letter 'h' in quantum mechanics?

- A) Hubble constant
- B) Planck constant
- C) Boltzmann constant
- D) Avogadro constant

14. Which experimental apparatus was used to demonstrate the existence of the ether wind, but failed to do so?

- A) Stern-Gerlach apparatus
- B) Michelson-Morley interferometer
- C) Cloud chamber
- D) Geiger counter

15. Who coined the term 'radioactivity'?

- A) Henri Becquerel
- B) Marie Curie
- C) Pierre Curie
- D) Ernest Rutherford

16. In 1935, which physicist proposed a thought experiment involving a cat in a box?

- A) Erwin Schrödinger
- B) Niels Bohr
- C) Max Born
- D) Wolfgang Pauli

17. Which particle accelerator project in Switzerland is the world's largest?

- A) Fermilab
- B) CERN
- C) DESY
- D) SLAC

18. Who discovered X-rays in 1895?

- A) Wilhelm Röntgen
- B) Henri Becquerel
- C) J.J. Thomson
- D) Nikola Tesla

19. Which physicist formulated the equations describing the behavior of electromagnetic fields?

- A) James Clerk Maxwell
- B) Andre-Marie Ampere
- C) Michael Faraday
- D) Alessandro Volta

20. Who was the primary developer of the matrix mechanics formulation of quantum mechanics?

- A) Werner Heisenberg
- B) Erwin Schrödinger
- C) Louis de Broglie
- D) Niels Bohr