

Physics Key Dates, Names, and Constants

Physics · Practice Test · 7 Questions

1. What is the exact speed of light in a vacuum defined by the International System of Units (SI)?

- A) 299,792,458 m/s
- B) 300,000,000 m/s
- C) 299,792,500 m/s
- D) 298,792,458 m/s

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) 1933

3. Which British physicist discovered the neutron in 1932?

- A) Ernest Rutherford
- B) James Chadwick
- C) J.J. Thomson
- D) John Cockcroft

4. What is absolute zero expressed in degrees Celsius?

- A) -273.15 °C
- B) -273.00 °C
- C) -254.12 °C
- D) -300.15 °C

5. What is the approximate value of Avogadro's constant (N_A)?

- A) $6.022 \times 10^{23} \text{ mol}^{-1}$
- B) $3.000 \times 10^8 \text{ mol}^{-1}$
- C) $1.602 \times 10^{19} \text{ mol}^{-1}$
- D) $6.626 \times 10^{34} \text{ mol}^{-1}$

6. Who discovered X-rays in 1895 and subsequently received the first Nobel Prize in Physics in 1901?

- A) Henri Becquerel
- B) Wilhelm Röntgen
- C) Marie Curie
- D) Max Planck

7. What is the approximate value of the Newtonian gravitational constant (G) in $\text{m}^3 \text{kg}^{-1} \text{s}^{-2}$?

- A) 9.81×100
- B) 6.67×10^{11}
- C) 8.31×100
- D) 1.38×10^{23}