

Physics Key Dates, Names, and Constants

Physics · Answer Key · 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}