Fundamental Physics Principles

Physics · Answer Key · 8 Questions

1. What is the unit of measurement for force in the International System of Units (SI)?

A) Joule
B) Watt
C) Newton
D) Pascal

2. Which state of matter has a definite volume but takes the shape of its container?

A) Solid
B) Liquid
C) Gas
D) Plasma

3. What phenomenon occurs when light changes direction as it passes from one medium to another of different density?

A) Reflection
B) Refraction
C) Diffraction
D) Polarization

4. Which fundamental force is responsible for holding the nucleus of an atom together?

A) Strong nuclear force
B) Electromagnetic force
C) Gravity
D) Weak nuclear force

5. According to Newton's Second Law of Motion, what is the relationship between force, mass, and acceleration?

A) F = m / a
B) F = a / m
C) F = m * a
D) F = m + a

6. In thermodynamics, what is the theoretical temperature at which all molecular motion ceases?

A) 0 degrees Celsius
B) 273 Kelvin
C) 0 Kelvin
D) 100 degrees Celsius

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7. Which type of electromagnetic radiation has the longest wavelength?

A) X-rays

B) Radio waves

C) Ultraviolet light

D) Visible light

8. What is the speed of light in a vacuum approximately equal to?

A) 300,000 km/s

B) 1,000,000 km/s

C) 150,000 km/s

D) 3,000 km/s

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