Physics General Knowledge

Physics · Practice Test · 20 Questions

1. What is the SI unit of electric potential difference?

A) Ampere
B) Volt
C) Ohm
D) Watt

2. Which subatomic particle carries a negative electric charge?

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

3. What is the approximate speed of light in a vacuum?

A) 300,000 km/s
B) 150,000 km/s
C) 1,000,000 km/s
D) 3,000 km/s

4. Which law states that for every action, there is an equal and opposite reaction?

A) Newton's First Law
B) Newton's Second Law
C) Newton's Third Law
D) Hooke's Law

5. What is the process by which heat is transferred through the movement of fluids?

A) Conduction
B) Radiation
C) Convection
D) Insulation

6. In optics, what is the term for the bending of light as it passes from one medium to another?

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

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7. What is the primary unit used to measure force in the International System of Units?

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

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

A) Gamma rays
B) X-rays
C) Radio waves
D) Ultraviolet

9. Who is credited with the formulation of the theory of general relativity?

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

10. What is the state of matter characterized by ionized gas and free electrons?

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

11. Which device is used to measure electric current?

A) Voltmeter
B) Ammeter
C) Galvanometer
D) Ohmmeter

12. What is the term for the amount of matter in an object?

A) Weight
B) Force
C) Mass
D) Density

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13. Which principle states that the buoyant force on an object submerged in a fluid is equal to the weight of the fluid displaced?

A) Bernoulli's principle
B) Archimedes' principle
C) Pascal's law
D) Torricelli's law

14. What is the absolute zero temperature in degrees Celsius?

A) 0°C
B) -100°C
C) -273.15°C
D) -373.15°C

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

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

16. What is the unit of power in the SI system?

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

17. Which component in a circuit is designed to resist the flow of electric current?

A) Capacitor
B) Inductor
C) Resistor
D) Transistor

18. What is the frequency of a wave that has a period of 0.5 seconds?

A) 0.5 Hz
B) 1 Hz
C) 2 Hz
D) 5 Hz

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19. Which scientist is known for the discovery of the law of universal gravitation?

A) Galileo Galilei
B) Johannes Kepler
C) Isaac Newton
D) Michael Faraday

20. What property of a sound wave determines its pitch?

A) Amplitude
B) Frequency
C) Phase
D) Velocity

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