

# WAEC Physics Practical 2026/2027

## 50+ Questions and Answers Guide

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This PDF contains carefully prepared likely WAEC Physics Practical questions and concise answers for revision and exam preparation.

**Question 1: What is the SI unit of force?**

**Answer:** The SI unit of force is Newton (N).

**Question 2: State Ohm's Law.**

**Answer:** Ohm's Law states that current is directly proportional to voltage provided temperature remains constant.

**Question 3: What instrument measures current?**

**Answer:** An ammeter measures electric current.

**Question 4: What is the function of a voltmeter?**

**Answer:** A voltmeter measures potential difference across a component.

**Question 5: Define density.**

**Answer:** Density is mass per unit volume of a substance.

**Question 6: What is the formula for density?**

**Answer:** Density = Mass ÷ Volume.

**Question 7: State the law of reflection.**

**Answer:** The angle of incidence equals the angle of reflection.

**Question 8: Name the instrument used to measure temperature.**

**Answer:** A thermometer is used to measure temperature.

**Question 9: What is the SI unit of power?**

**Answer:** The SI unit of power is Watt (W).

**Question 10: Define work done.**

**Answer:** Work done is the product of force and distance moved in the direction of the force.

**Question 11: What is acceleration due to gravity?**

**Answer:** It is approximately 9.8 m/s<sup>2</sup>.

**Question 12: Mention one source of experimental error.**

**Answer:** Parallax error.

**Question 13: What is the purpose of a resistor in a circuit?**

**Answer:** It limits the flow of current.

**Question 14: Define velocity.**

**Answer:** Velocity is speed in a specified direction.

**Question 15: State Hooke's Law.**

**Answer:** Extension is directly proportional to the applied force within elastic limit.

**Question 16: What instrument measures mass?**

**Answer:** A beam balance or electronic balance.

**Question 17: What is the unit of resistance?**

**Answer:** Ohm ( $\Omega$ ).

**Question 18: Differentiate between mass and weight.**

**Answer:** Mass is the amount of matter while weight is the gravitational force on an object.

**Question 19: What is energy?**

**Answer:** Energy is the ability to do work.

**Question 20: Name two renewable energy sources.**

**Answer:** Solar energy and wind energy.

**Question 21: What is the formula for pressure?**

**Answer:** Pressure = Force  $\div$  Area.

**Question 22: What is latent heat?**

**Answer:** Heat absorbed or released during change of state without temperature change.

**Question 23: Define frequency.**

**Answer:** Frequency is the number of oscillations per second.

**Question 24: What is the SI unit of frequency?**

**Answer:** Hertz (Hz).

**Question 25: Mention one use of a convex lens.**

**Answer:** It is used in cameras.

**Question 26: What is refraction?**

**Answer:** The bending of light as it passes from one medium to another.

**Question 27: Define momentum.**

**Answer:** Momentum is the product of mass and velocity.

**Question 28: What is the formula for kinetic energy?**

**Answer:**  $KE = \frac{1}{2} mv^2$ .

**Question 29: State Newton's First Law of Motion.**

**Answer:** A body remains at rest or in uniform motion unless acted upon by an external force.

**Question 30: What is the function of a fuse?**

**Answer:** It protects electrical appliances from excess current.

**Question 31: Name the three states of matter.**

**Answer:** Solid, liquid, and gas.

**Question 32: What is the boiling point of water?**

**Answer:** 100°C at standard atmospheric pressure.

**Question 33: Define specific heat capacity.**

**Answer:** Heat required to raise the temperature of unit mass by 1°C or 1K.

**Question 34: What is a conductor?**

**Answer:** A material that allows electricity or heat to pass through easily.

**Question 35: Give one example of an insulator.**

**Answer:** Plastic.

**Question 36: What is the speed of light in vacuum?**

**Answer:** Approximately  $3 \times 10^8$  m/s.

**Question 37: What is a scalar quantity?**

**Answer:** A quantity with magnitude only.

**Question 38: What is a vector quantity?**

**Answer:** A quantity with both magnitude and direction.

**Question 39: Mention one vector quantity.**

**Answer:** Velocity.

**Question 40: Define mechanical advantage.**

**Answer:** Mechanical advantage is  $\text{Load} \div \text{Effort}$ .

**Question 41: What is equilibrium?**

**Answer:** A state where resultant force is zero.

**Question 42: What is the unit of electric current?**

**Answer:** Ampere (A).

**Question 43: What is electromagnetism?**

**Answer:** Magnetism produced by electric current.

**Question 44: Define evaporation.**

**Answer:** The process by which liquid changes to gas at any temperature.

**Question 45: What is resonance?**

**Answer:** A condition where an object vibrates with maximum amplitude.

**Question 46: What is the formula for speed?**

**Answer:**  $\text{Speed} = \text{Distance} \div \text{Time}$ .

**Question 47: Define capacitance.**

**Answer:** Capacitance is the ability of a capacitor to store charge.

**Question 48: What instrument measures atmospheric pressure?**

**Answer:** Barometer.

**Question 49: What is radioactive decay?**

**Answer:** The spontaneous disintegration of unstable nuclei.

**Question 50: Mention one application of ultrasound.**

**Answer:** Medical scanning.

**Question 51: What is diffraction?**

**Answer:** The spreading of waves around obstacles or openings.

**Question 52: Define wavelength.**

**Answer:** The distance between two consecutive similar points on a wave.

**Question 53: What is polarization?**

**Answer:** Restriction of wave vibration to one plane.

**Question 54: State Archimedes' Principle.**

**Answer:** An upthrust equal to the weight of displaced fluid acts on a body immersed in fluid.

**Question 55: What is the unit of charge?**

**Answer:** Coulomb (C).

**Question 56: What is inertia?**

**Answer:** The tendency of a body to resist change in its state of motion.