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List Of Scientific Instruments & Their Uses PDF For UPSC, Banking & SSC Exams



Instrument	Quantity Measured
Accelerometer	physical acceleration
Actinometer	heating power of sunlight
Alcoholmeter	alcoholic strength of liquids
Altimeter	altitudes
Ammeter	electric current
Anemometer	windspeed
Audimeter	hearing
Barkometer	tanning liquors used in tanning leather
Barometer	air pressure
Bevometer	mechanical properties of soil
Bolometer	electromagnetic radiation
Brannok Device	measuring shoe size
Breathalyzer	breath alcohol content
Caliper	distance
Calorimeter	heat of chemical reactions
Cathetometer	vertical distances
Ceilometer	height of a cloud base
Chronometer or Clock	time
Clap-o-meter	volume of applause
Compass	direction of North
Colorimeter	color

Creepmeter	slow surface displacement of an active geologic fault in the earth
Declinometer	magnetic declination
Densimeter	specific gravity of liquids
Densitometer	degree of darkness in photographic or semitransparent material
Diffractometer	structure of crystals
Dialtometer	volume changes caused by a physical or chemical process
Disdrometer	size, speed, and velocity of raindrops
Dosimeter	exposure to hazards, especially radiation; radiation of item
Dynamometer	force, torque or power
Electricity Meter	electrical energy used
Electrometer	electric charge
Electronic Tuner	pitch of musical notes
Ellipsometer	refractive index, dielectric function, thickness of thin films
Eudiometer	change in volume of a gas mixture following combustion
Evaporimeter	rate of evaporation
Fathometer	ocean depth
Framing Square	right angles in construction
Frequency Counter	Frequency Of Alternating Current

Fuel Gauge	fuel levels
Galvanometer	electricity
Gas Pycnometer	volume and density of solids
Geiger Counter	ionizing radiation (alpha, beta, gamma, etc.)
Glucometer	blood glucose (diabetes)
Graphometer	angles
Heliometer	variation of the sun's diameter
Hydrometer	specific gravity of liquids (density of liquids)
Hygrometer	humidity
Inclinometer	angle of a slope
Inkometer	ink
Interferometer	wave interference
Infrared Thermometer	Measures heat radiated
Katharometer	composition of gases
Lactometer	specific gravity of milk
Light meter	light (in photography)
Load Cell	measurement of force
Lux meter	intensity of light
Magnetometer	strength of magnetic fields
Manometer	pressure of gas
Mass flow meter	mass flow rate of a fluid travelling through

	a tube
Mass Spectrometer	masses of ions, used to identify chemical substances through their mass spectra
Measuring Spoon	a spoon used to measure an amount of an ingredient, either liquid or dry
Megger	electrical insulation
Mercury Barometer	Atmospheric pressure
Micrometer	small distances
Multimeter	electrical potential, resistance, and current
Nephoscope	to measure the speed and direction of clouds
Nephelometer	particle in a liquid
Odometer	distance travelled
Ohmmeter	electrical resistance
Orchidometer	testicle size in male humans
Oscilloscope	oscillations
Osmometer	osmotic strength of a solution, colloid, or compound matter of an object
Parking Meter	collects moneys for vehicle parking rights in a zone for a limited time
Pedometer	steps
PH meter	pH (chemical acidity/basicity of a solution)
Photometer	illuminance or irradiance
Planometer	area

Polarimeter	rotation of polarized light
Potentiometer	voltage (term is also used to refer to a variable resistor)
Profilometer	surface roughness
Protractor	angles
Psychrometer	humidity
Pycnometer	fluid density
Pyranometer	solar radiation
Pyrheliometer	direct solar insolation
Pyrometer	high temperatures
Quadrat	percentage cover of a certain species
Rain Gauge	measuring of rain
Radiometer	radiant flux of electromagnetic radiation
Rheometer	response to applied forces
Rotameter	pressure of a liquid or gas in a closed tube
Saccharometer	amount of sugar in a solution
Seismometer	seismic waves (for example, earthquakes)
Sextant	location on earth's surface (used in naval navigation)
Spectrometer	properties of light
Spectrophotometer	intensity of light as a function of wavelength
Speedometer	speed, velocity of a vehicle

Spirometer	the lung capacity
Spherometer	radius of a sphere
Sphygmomanometer	blood pressure
Stadimeter	object range
Strainmeter	seismic strain
SWR meter	standing wave ratio
Tacheometer	distance
Tachometer	revolutions per minute, rate of blood flow, speed of aeroplanes
Taximeter	distance travelled, displacement
Tensiometer	surface tension of a liquid
Theodolite	measuring angles in the horizontal and vertical planes
Thermometer	temperature
Tiltmeter	minor changes to the Earth
Tintometer	colour
Vacuum Gauge	very low pressure
Viscometer	viscosity of a fluid
Voltmeter	electric potential, voltage
Watt Meter	electrical power
Wind Vane	wind direction
Zymometer	fermentation.

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