36 Years (NEET) + 46 JEE Main **English Medium PHYSICS**

Youth Competition

749 Chapterwise Solved Papers

India Medical & Engineering Entrance Exam

NEET/JEE MAIN/CUET

■ NEET/AIPMT = AIIMS = JEE Main = AMU = AP EAMCET (Medical) = AP EAMCET (Engg.) ASSAM CEE BCECE BITSAT Chhattisgarh-PET COMEDK DCE KVPY NTSE SCRA ■ Gujarat Common Entrance Test (GUJCET) ■ Himachal Pradesh-CET ■ J & K-CET JCECE Kerala-CEE Karnataka-CET(KCET) KVPY MP -PET MANIPAL JIPMER MHT-CET NTSE Odisha-JEE SCRA SRM-JEE TS EAMCET (Medical) ■TS EAMCET (Engg.) ■ UPCPMT ■ UPTU ■ UPSEE ■ UPSC NDA/NA ■ VITEEE ■ WEST BENGAL JEE

Volume MECHANIC



Chapterwise & Sub-Topicwise





with Explanatory Notes Based on

PREVIOUS YEARS Q's

As per Revised **Answer-key**

Medical & Engineering Entrance Exam Solved Questions

All India Medical & Engineering Entrance Examination

NEET/JEE Main

PHYSICS Previous Years

Chapterwise Objective

Solved Papers

VOLUME-I

Useful for: NEET/AIPMT, AIIMS, JEE (Main), AMU, AP EAMCET (Medical), AP EAMCET (Engg.), ASSAM CEE, BCECE, BITSAT, Chhattisgarh-PET, COMEDK, DCE, Gujarat Common Entrance Test (GUJCET), Himanchal Pradesh-CET, J & K CET, JCECE, KVPY, Kerala-CEE, Karnataka-CET(KCET), MP-PET, MANIPAL, JIPMER, MHT-CET, NTSE, Odisha-JEE, SRM-JEE, TS-EAMCET(Medical), TS-EAMCET (Engg.), UPCPMT, UPTU, UPSEE, UPSC NDA/NA/SCRA, VITEEE, WEST BENGAL JEE.

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NEET

UNIT-1: Physical World and Measurement

Physics Scope and excitement, nature of physical laws Physics, technology and society.

Need for measurement Units of measurement, systems of units, SI units, fundamental and derived units.

Length, mass and time measurements, accuracy and precision of measuring instruments, errors in measurement, significant figures. Dimensions of physical quantities, dimensional analysis and its applications.

UNIT-II: Kinematics

Frame of reference, Motion in a straight line, Positiontime graph, speed and velocity. Uniform and nonuniform motion, average speed and instantaneous velocity. Uniformly accelerated motion, velocity-time and position- time graphs, for uniformly accelerated motion (graphical treatment). Elementary concepts of differentiation and integration for describing motion. Scalar and vector quantities: Position and displacement vectors, general vectors, general vectors and notation, equality of vectors, multiplication of vectors by a real number, addition and subtraction of vectors. Relative velocity. Unit vectors. Resolution of a vector in a planerectangular components. Scalar and Vector products of Vectors. Motion in a plane. Cases of uniform velocity and uniform acceleration-projectile motion. Uniform circular motion.

UNIT-III: Laws of Motion

Intuitive concept of force. Inertia, Newton's first law of motion momentum and Newton's second law of motion, impulse, Newton's third law of motion Law of conservation of linear momentum and its applications. Equilibrium of concurrent forces. Static and Kinetic friction, laws of friction, rolling friction, lubrication. Dynamics of uniform circular motion. Centripetal force, examples of circular motion (vehicle on level circular road, vehicle on banked road).

UNIT-IV: Work, Energy and Power

Work done by a constant force and variable force, kinetic energy, work-energy theorem, power Notion of potential energy, potential energy of a spring, conservative forces, conservation of mechanical energy (kinetic and potential energies), non-conservative forces, motion in a vertical circle, elastic and inelastic collisions in one and two dimensions

UNIT-V: Motion of System of Particles and Rigid Body

Centre of mass of a two-particle system, momentum conservation and centre of mass motion Centre of mass of a rigid body, centre of mass of uniform rod. Moment of a force, torque, angular momentum, conservation of angular momentum with some examples. Equilibrium of rigid bodies, rigid body rotation and equation of rotational motion, comparison of linear and rotational motions, moment of inertia, radius of gyration, Values of MI for simple geometrical objects (no derivation). Statement of parallel and perpendicular axis theorems and their applications.

UNIT-VI: Gravitation

Kepler's laws of planetary motion. The universal law of gravitation Acceleration due to gravity and its variation with altitude and depth. Gravitational potential energy, gravitational potential Escape velocity, orbital velocity of a satellite. Geostationary satellites

UNIT-VII: Properties of Bulk Matter

Elastic behavior, Stress-strain relationship, Hooke's law, Young's modulus, bulk modulus, shear, modulus of rigidity, poisson's ratio; elastic energy. Viscosity, Stokes' law, terminal velocity, Reynold's number, streamline and turbulent flow. Critical velocity, Bernoulli's theorem and its applications. Surface energy and surface tension, angle of contact, excess of pressure, application of surface tension ideas to drops, bubbles and capillary rise. Heat, temperature, thermal expansion, thermal expansion of solids, liquids and gases. Anomalous expansion Specific heat capacity, Cp, C, , calorimetry, change of state-latent heat. Heat transfer- conduction and thermal conductivity, convection and radiation. Qualitative ideas of Black Body Radiation, Wein's displacement law and Green House effect. Newton's law of cooling and Stefan's law.

UNIT-VIII: Thermodynamics

Thermal equilibrium and definition of temperature (zeroth law of Thermodynamics). Heat, work and internal energy. First law of thermodynamics Isothermal and adiabatic processes. Second law of the thermodynamics Reversible and irreversible processes. Heat engines and refrigerators.

UNIT-IX: Behaviour of Perfect Gas and Kinetic Theory

Equation of state of a perfect gas, work done on compressing a gas. Kinetic theory of gases Assumptions, concept of pressure. Kinetic energy and temperature, degrees of freedom, law of equipartition of energy (statement only) and application to specific heat capacities of gases concept of mean free path.

UNIT-X: Oscillations and Waves

Periodic motion-period, frequency, displacement as a function of time, Periodic functions. Simple harmonic motion(SHM) and its equation, phase, oscillations of a spring-restoring force and force constant, energy in SHM-kinetic and potential energies, simple pendulum-derivation of expression for its time period, free, forced and damped oscillations (qualitative ideas only), resonance. Wave motion. Longitudinal and transverse waves, speed of wave motion. Displacement relation for a progressive wave. Principle of superposition of waves, reflection of waves, standing waves in strings and organ pipes, fundamental mode and harmonics. Beats, Doppler effect

UNIT-I: Electrostatics

Electric charges and their conservation. Coulomb's lawforce between two point charges, forces between
multiple charges, superposition principle and continuous
charge distribution. Electric field, electric field due to a
point charge, electric field lines, electric dipole, electric
field due to a dipole, torque on a dipole in a uniform
electric field. Electric flux, statement of Gauss's theorem
and its applications to find field due to infinitely long
straight wire, uniformly charged infinite plane sheet and
uniformly charged thin spherical shell field inside and
outside)

Electric potential potential difference, electric potential due to a point charge, a dipole and system of charges, equipotential surfaces, electrical potential energy of a system of two point charges and of electric diploes in an electrostatic field. Conductors and insulators, free charges and bound charges inside a conductor, Dielectrics and electric polarization, capacitors and capacitance, combination of capacitors in series and in parallel capacitance of a parallel plate capacitor with and without dielectric medium between the plates, energy stored in a capacitor, Van de Graaff generator.

UNIT-II: Current Electricity

Electric current, flow of electric charges in a metallic conductor, drift velocity and mobility and their relation with electric current, Ohm's law, electrical resistance. V-I characteristics (linear and non-linear), electrical energy and power, electrical resistivity and conductivity. Carbon resistors, colour code for carbon resistors, series and parallel combinations of resistors, temperature dependence of resistance.

Internal resistance of a cell, potential difference and emf of a cell, combination of cells in series and in parallel. Kirchhoff's laws and simple applications. Wheatstone bridge, metre bridge. Potentiometer-principle and applications to measure potential difference, and for comparing emf of two cells, measurement of internal resistance of a cell

UNIT-III: Magnetic Effects of Current and Magnetism

Concept of magnetic field, Oersted's experiment. Biot-Savart's law and its application to current carrying circular loop. Ampere's law and its applications to infinitely long straight wine, straight and toroidal solenoids Force on a moving charge in uniform magnetic and electric fields, Cyclotron. Force on a current-carrying conductor in a uniform magnetic field. Force between two parallel current-carrying conductors-definition of ampere Torque experienced by a current loop in a magnetic field, moving coil galvanometer-its current sensitivity and conversion to ammeter and voltmeter. Current loop as a magnetic dipole and its magnetic dipole moment.

Magnetic dipole moment of a revolving electron, Magnetic field intensity due to a magnetic dipole (bar magnet) along its axis and perpendicular to its axis Torque on a magnetic dipole (bar magnet) in a uniform magnetic field, bar magnet as an equivalent solenoid, magnetic field lines Earth's magnetic field and magnetic elements. Para-, dia-and ferro-magnetic substances with examples. Electromagnetic and factors affecting their strengths. Permanent magnets.

UNIT-IV: Electromagnetic Induction and Alternatia

Electromagnetic induction Faraday's law, induced emand current, Lenz's Law, Eddy currents. Self and mutual inductance. Alternating currents, peak and rms value of alternating current/ voltage, reactance and impedance LC oscillations (qualitative treatment onlyL LCR serie circuit, resonance, power in AC circuits, wattles current AC generator and transformer.

UNIT-V: Electromagnetic Waves

Need for displacement current. Electromagnetic waves and their characteristics (qualitative ideas only).

Transverse nature of electromagnetic waves Electromagnetic spectrum (radiowaves, microwaves infrared, visible, ultraviolet, X-rays, gamma rays Including elementary facts about their uses.

UNIT-VI: Optics

Reflection of light, spherical mirrors, minor formula Refraction of light, total internal reflection and in applications optical fibres, refraction at spherical surfaces, lenses, thin lens formula, lens-maker's formula Magnification, power of a lens, combination of this lenses in contact combination of a lens and a mirror. Refraction and dispersion of light through a prism Scattering of light-blue colour of the sky and reddish appearance of the sun at sunrise and sunset

Optical instruments Human eye, image formation and accommodation, correction of eye defects (myopia and hypermetropia) using lenses. Microscopes and astronomical telescopes (reflecting and refracting) and their magnifying powers. Wave optics: Wavefront and Huygens' principle, reflection and refraction of plane wave at a plane surface using wavefronts. Proof of laws of reflection and refraction using Huygens' principle. Interference, Young's double hole experiment and expression for fringe width, coherent sources and sustained interference of light. Diffraction due to a single slit, width of central maximum Resolving power of microscopes and astronomical telescopes. Polarisation, plane polarised light, Brewster's law, uses of plane polarised light and Polaroids.

UNIT-VII: Dual Nature of Matter and Radiation

Photoelectric effect, Hertz and Lenard's observations, Einstein's photoelectric equation-particle nature of light. Matter waves-wave nature of particles, de-Broglie relation. Davisson-Germer experiment (experimental details should be omitted, only conclusion should be explained)

UNIT-VIII Atoms and Nuclei

Alpha-particle scattering experiments, Rutherford's model of atom, Bohr model energy levels, hydrogen spectrum. Composition and size of nucleus, atomic masses, isotopes, isobars, isotones. Radioactivity a band g particles/ rays and their properties decay law. Massenergy relation mass defect, binding energy per nucleon and its variation with mass number nuclear fission and fusion.

UNIT-IX: Electronic Devices

Energy bands in solids (qualitative ideas only), conductors, insulators and semiconductors, semiconductor diode-I-V characteristics in forward and reverse bias, diode as a rectifier.

I-V characteristics of LED, photodiode, solar cell and Zener diode, Zener diode as a voltage regulator. Junction transistor, transistor action, characteristics of a transistor, transistor as an amplifier (common emitter configuration) and oscillator Logic gates (OR, AND, NOT, NAND and NOR). Transistor as a switch.

JEE (Main)

SECTION- A

UNIT 1 Physics and Measurement

Physics, technology and society, SI units, Fundamental and derived units. Least count, accuracy and precision of measuring instruments, Errors in measurement, Significant figures. Dimensions of Physical quantities, dimensional analysis and its applications.

UNIT 2 Kinematics

Frame of reference. Motion in a straight line: Positiontime graph, speed and velocity. Uniform and nonuniform motion, average speed and instantaneous velocity. Uniformly accelerated motion, velocity-time, position time graphs, relations for uniformly accelerated motion. Scalars and Vectors, Vector addition and Subtraction. Zero Vector. Scalar and Vector products.

Subtraction, Zero Vector, Scalar and Vector products, Unit Vector, Resolution of a Vector. Relative Velocity, Motion in a plane, Projectile Motion, Uniform Circular Motion.

UNIT 3 Laws of Motion

Force and Inertia, Newton's First Law of motion; Momentum, Newton's Second Law of motion; Impulse; Newton's Third Law of motion. Law of conservation of linear momentum and its applications, Equilibrium of concurrent forces. Static and Kinetic friction, laws of friction, rolling friction.

Dynamics of uniform circular motion: Centripetal force and its applications.

UNIT 4 Work, Energy and Power

Work done by a constant force and a variable force; kinetic and potential energies, work-energy theorem, power. Potential energy of a spring, conservation of mechanical energy, conservative and non-conservative forces; Elastic and inelastic collisions in one and two dimensions.

UNIT 5 Rotational Motion

Centre of mass of a two-particle system, Centre of mass of a rigid body; Basic concepts of rotational motion; moment of a force, torque, angular momentum, conservation of angular momentum and its applications; moment of inertia, radius of gyration. Values of moments of inertia for simple geometrical objects, parallel and perpendicular axis theorems and their applications. Rigid body rotation, equations of rotational motion.

UNIT 6 Gravitation

The universal law of gravitation. Acceleration due to gravity and its variation with altitude and depth. Kepler's laws of planetary motion. Gravitational potential energy; gravitational potential. Escape velocity. Orbital velocity of a satellite. Geo-stationary satellites.

UNIT 7 Properties of Solids & Liquids

Elastic behaviour, Stress-strain relationship, Hooke's.

Law, Young's modulus, bulk modulus, modulus of rigidity. Pressure due to a fluid column; Pascal's law and its applications. Viscosity, Stokes' law, terminal velocity, streamline and turbulent flow, Reynolds number. Bernoulli's principle and its applications. Surface energy and surface tension, angle of contact, application of surface tension - drops, bubbles and

application of surface tension - drops, bubbles and capillary rise. Heat, temperature, thermal expansion; specific heat capacity, calorimetry; change of state, latent heat. Heat transfer-conduction, convection and radiation, Newton's law of cooling.

UNIT 8 Thermodynamics

Thermal equilibrium, zeroth law of thermodynamics, concept of temperature. Heat, work and internal energy. First law of thermodynamics. Second law of thermodynamics: reversible and irreversible processes. Carnot engine and its efficiency.

UNIT 9 Kinetic Theory of Gases

Equation of state of a perfect gas, work done on compressing a gas. Kinetic theory of gases - assumptions, concept of pressure. Kinetic energy and temperature: rms speed of gas molecules; Degrees of freedom, Law of equipartition of energy, applications to specific heat capacities of gases; Mean free path, Avogadro's number.

UNIT 10 Oscillations And Waves

Periodic motion - period, frequency, displacement as a function of time. Periodic functions. Simple harmonic motion (S.H.M.) and its equation; phase; oscillations of a spring - restoring force and force constant; energy in S.H.M. - kinetic and potential energies; Simple pendulum - derivation of expression

for its time period; Free, forced and damped oscillations, resonance. Wave motion Longitudinal and transverse waves, speed of a wave. Displacement relation for a progressive wave. Principle of superposition of waves, reflection of waves, Standing waves in strings and organ pipes, fundamental mode and harmonics, Beats, Doppler effect in sound.

UNIT 11 Electrostatics

Electric charges Conservation of charge, Coulomb's lawforces between two point charges, forces between multiple charges; superposition principle and continuous charge distribution. Electric field Electric field due to a point charge, Electric field lines, Electric dipole, Electric field due to a dipole, Torque on a dipole in a uniform electric field. Electric flux, Gauss's law and its applications to find field due to infinitely long, uniformly charged straight wire, uniformly charged infinite plane sheet and uniformly charged thin spherical shell. Electric potential and its calculation for a point charge, electric dipole and system of charges; Equipotential surfaces, Electrical potential energy of a system of two point charges in an electrostatic field.

Conductors and insulators, Dielectrics and electric polarization, capacitor, combination of capacitors in series and in parallel, capacitance of a parallel plate capacitor with and without dielectric medium between the plates, Energy stored in a capacitor.

UNIT 12 Current Electricity

Electric current, Drift velocity, Ohm's law, Electrical resistance, Resistances of different materials, V-I characteristics of Ohmic and non-ohmic conductors, Electrical energy and power, Electrical resistivity, Colour code for resistors; Series and parallel combinations of resistors; Temperature dependence of resistance. Electric Cell and its Internal resistance, potential difference and emf of a cell, combination of cells in series and in parallel. Kirchhoff's laws and their applications. Wheatstone bridge, Metre bridge. Potentiometer - principle and its applications.

UNIT 13 Magnetic Effects of Current and Magnetism

Biot-Savart law and its application to current carrying circular loop. Ampere's law and its applications to infinitely long current carrying straight wire and solenoid. Force on a moving charge in uniform magnetic and electric fields Cyclotron. Force on a current-carrying conductor in a uniform magnetic field. Force between two parallel current carrying conductors-definition of ampere. Torque experienced by a current loop in uniform magnetic field, Moving coil galvanometer, its current sensitivity and conversion to ammeter and voltmeter. Current loop as a magnetic dipole and its magnetic

dipole moment. Bar magnet as an equivalent solenoid, magnetic field lines; Earth's magnetic field and magnetic elements. Para, dia and ferro-magnetic substances Magnetic susceptibility and permeability, Hysteresis, Electromagnets and permanent magnets.

UNIT 14 Electromagnetic Induction and Alternating Currents

Electromagnetic induction; Faraday's law, induced emf and current; Lenz's Law, Eddy currents. Self and mutual inductance.

Alternating currents, peak and rms value of alternating current/ voltage; reactance and impedance; LCR series circuit, resonance; Quality factor, power in AC circuits, wattless current. AC generator and transformer.

UNIT 15 Electromagnetic Waves

Electromagnetic waves and their characteristics.

Transverse nature of electromagnetic waves.

Electromagnetic spectrum (radio waves, microwaves, infrared, visible, ultraviolet, X-rays, gamma rays),

Applications of e.m. waves.

UNIT 16 Opties

Reflection and refraction of light at plane and spherical surfaces, mirror formula, Total internal reflection and its applications, Deviation and Dispersion of light by a prism, Lens Formula, Magnification, Power of a Len, Combination of thin lenses in contact, Microscope and Astronomical Telescope (reflecting and refracting) and their magnifying powers. Wave optics wave front and Huygens' principle, Laws of reflection and refraction using Huygen's principle. Interference, Young's double slit experiment and expression for fringe width, coherent sources and sustained interference of light. Diffraction due to a single slit, width of central maximum. Resolving power of microscopes and astronomical telescopes Polarisation, plane polarized light; Brewster's law, use of plane polarized light and Polaroids.

UNIT 17 Dual Nature of Matter and Radiation

Dual nature of radiation. Photoelectric effect, Hertz and Lenard's observations; Einstein's photoelectric equation particle nature of light. Matter waves-wave nature of particle, de Broglie relation. Davisson-Germen, experiment.

UNIT 18 Atoms and Nuclei

Alpha-particle scattering experiment; Rutherford's model of atom; Bohr model,

of nucleus, atomic masses, isotopes, isobars; isotones.

Radioactivity-alpha, beta and gamma

particles/rays and their properties; radioactive decay law.

Mass-energy relation, mass defect; binding energy per
nucleon and its variation with mass number, nuclear
fission and fusion.

UNIT 19 Electronic Devices

Semiconductors; semiconductor diode: I-V

characteristics in forward and reverse bias; diode as a rectifier; I-V characteristics of LED, photodiode, solar cell, and Zener diode; Zener diode as a voltage regulator Junction transistor, transistor action, characteristics of a transistor transistor as an amplifier (common emitter configuration) and oscillator. Logic gates (OR, AND, NOT, NAND & NOR). Transistor as a switch.

UNIT 20 Communication Systems

Propagation of electromagnetic waves in the atmosphere; Sky and space wave propagation, Need for modulation, Amplitude and Frequency Modulation, Bandwidth of signals, Bandwidth of Transmission medium, Basic Elements of a Communication System (Block Diagram only)

All India Medical & Engineering Entrance Exam, AIIMS, NEET, & JEE Main Physics Previous Years Exam Papers Analysis Chart

SNo	Exam	Proposed Year	Question Paper	Total Question
_	All India Pre Med	cal Test/National Eligibility Cu 04.09,2022 17.07,2022	m Entrance Test (AIPMT/N	EET) 50
-	NEET	17.07.2022		30
-	NEET	12.09.2021	_	50
	NEET	13.09.2020		50
	NEET	05.06.2019		50
6.	NEET (Odisha)	2019		50
7.	NEET	06.05.2018		50
8	NEET	07.05.2017		50
9.	NEET	01.05.2016	Phase-I	50
0	NEET	24.06.2016	Phase-II	50
1	AIPMT	25.07.2015		50
2.	AIPMT (Re-Exam)	2015		50
3	NEET	04.05,2014		50 50
4.	NEET (Karnataka)	05.05.2013	-	50
5	AIPMT	2013 2012		50
6.	AIPMT Mains	2012		20
7.	AIPMT	2011		50
9.	AIPMT Mains	2011		20
0.	AIPMT	2010		50
1.	AIPMT Mains	2010		20
2.	AIPMT	2009		50
3.	AIPMT Mains	2009		20
4.	AIPMT	2008		50
3.	AIPMT Mains	2008		20
6.	AIPMT	2007	4	50
7.	AIPMT Mains	2007		20
8.	AIPMT	2006		50
9.	AIPMT Mains	2006		20 50
0.	AIPMT	2005 2005		20
1.	AIPMT Mains	2003	-	50
32.	AIPMT Mains	2004		20
33.	AIPMT	2003		50
14.	AIPMT	2002		50
36.	AIPMT	2001		50
17.	AIPMT	2000		50
18.	AIPMT	1999		50
19.	AIPMT	1998		50
0.	AIPMT	1997		50 50
Π.	AIPMT	1996		50
2.	AIPMT	1995		50
3.	AIPMT	1994		50
4.	AIPMT	1993		50
5.	AIPMT	1992 1991		50
6.	AIPMT	1991		50
7.	AIPMT	1989		50
8.	AIPMT	1988		50
9.	AIPMT		n (JEE Main)	
A PER S	A SERVICE AND A	Joint Entrance Examination	Shift-I	30
0.	NTA JEE Main	24.01.2023 24.01.2023	Shift-II	30
1.	NTA JEE Main	25.01.2023	Shift-I	30
2.	NTA JEE Main	25.01.2023	Shift-II	30
3.	NTA JEE Main	29.01.2023	Shift-I	30
4.	NTA JEE Main	29.01.2023	Shift-II	30
5.	NTA JEE Main	30.01,2023	Shift-I	30 30
6.	NTA JEE Main	30.01.2023	Shift-II	30
7.	NTA JEE Main	31.01.2023	Shift-I	30
8.	NTA JEE Main	31,01,2023	Shift-II	30
9.	NTA JEE Main	01.02.2023	Shift-I	30
0.	NTA JEE Main NTA JEE Main	01.02.2023	Shift-II	30
1.	NTA JEE Main	29.07.2022	Shift-I	30
52.	NTA JEE Main	29.07.2022	Shift-II	30
3.	NTA JEE Main	28.07.2022	Shift-II	30
14.	NTA JEE Main	28.07.2022	Shift-I	30
55.	NTA JEE Main	27.07.2022	SHIRE	

67.	NTA JEE Main	27.07.2022	Shift-II	30
68.	NTA JEE Main	26,07,2022	Shift-I	30
69.	NTA JEE Main	26.07.2022	Shift-II	30
70.	NTA JEE Main	25.07.2022	Shift-I	30
71.	NTA JEE Main	25.07,2022	Shift-II	30
72.	NTA JEE Main	29.06.2022	Shift-I	30
3.	NTA JEE Main	29.06.2022	Shift-II	30
4.	NTA JEE Main	28.06,2022	Shift-I	30
5.	NTA JEE Main	28,06,2022	Shift-II	30
6.	NTA JEE Main	27.06.2022	Shift-I	30
7.	NTA JEE Main	27.06,2022	Shift-II	30
8.	NTA JEE Main	26.06.2022	Shift-I	30
9.	NTA JEE Main	26.06,2022	Shift-II	36
0.	NTA JEE Main	25.06,2022	Shift-I	30
Ĭ.	NTA JEE Main	25.06,2022	Shift-II	30
2.	NTA JEE Main	24.06.2022	Shift-I	36
3.	NTA JEE Main	24.06.2022	Shift-II	36
4.	NTA JEE Main	01,09,2021	Shift-I	30
5.	NTA JEE Main	01.09.2021	Shift-II	30
6.	NTA JEE Main	31.08.2021	Shift-I	30
7.	NTA JEE Main	31.08.2021	Shift-II	30
8.	NTA JEE Main	27.08.2021	Shift-I	30
9.	NTA JEE Main	27.08.2021	Shift-II	30
0.	NTA JEE Main	26.08.2021	Shift-I	30
l.	NTA JEE Main	26,08,2021	Shift-II	30
	NTA JEE Main	27.07.2021	Shift-I	30
2.	NTA JEE Main	27.07.2021	Shift-II	30
3.	NTA JEE Main	25.07.2021	Shift-I	30
ļ	NTA JEE Main	25.07.2021	Shift-II	30
5.	NTA JEE Main	22.07.2021	Shift-I	30
6.	NIA JEE Main	22.07.2021	Shift-II	30
7.	NTA JEE Main	20.07.2021	Shift-I	30
8.	NTA JEE Main	20.07.2021	Shift-II	30
9.	NTA JEE Main	18.03.2021	Shift-I	30
00.	NTA JEE Main	18.03.2021	Shift-II	30
01.	NTA JEE Main			30
02.	NTA JEE Main	17.03.2021	Shift-I	30
03.	NTA JEE Main	17.03.2021	Shift-II	30
04.	NTA JEE Main	16.03.2021	Shift-I	30
05.	NTA JEE Main	16.03.2021	Shift-II	
06.	NTA JEE Main	26,02.2021	Shift-I	30
07.	NTA JEE Main	26.02.2021	Shift-II	30
08.	NTA JEE Main	25.02.2021	Shift-I	30
09.	NTA JEE Main	25.02.2021	Shift-II	30
10.	NTA JEE Main	24.02.2021	Shift-I	30
II.	NTA JEE Main	24.02.2021	Shift-II	30
12.	NTA JEE Main	06.09.2020	Shift-I	30
13.	NTA JEE Main	06.09.2020	Shift-II	30
14.	NTA JEE Main	05.09.2020	Shift-I	30
	NTA JEE Main	05.09.2020	Shift-II	30
15.	NTA JEE Main	04.09.2020	Shift-I	25
16.	NTA JEE Main	04.09.2020	Shift-II	25
17.	NTA JEE Main	03.09.2020	Shift-I	30
18.		03.09.2020	Shift-II	30
19.	NTA JEE Main	02.09.2020	Shift-I	25
20.	NTA JEE Main	02.09.2020	Shift-II	25
21.	NTA JEE Main	02.09.2020	Shift-I	30
22.	NTA JEE Main			30
23.	NTA JEE Main	09.01.2020	Shift-II	30
24.	NTA JEE Main	08.01.2020	Shift-I	30
25.	NTA JEE Main	08.01.2020	Shift-II	
26.	NTA JEE Main	07.01.2020	Shift-I	30
27.	NTA JEE Main	07.01.2020	Shift-II	30
28.	NTA JEE Main	12.04.2019	Shift-I	30
29.	NTA JEE Main	12.04.2019	Shift-II	30
30.	NTA JEE Main	10.04.2019	Shift-I	30
31.	NTA JEE Main	10.04.2019	Shift-II	30
32.	NTA JEE Main	09.04.2019	Shift-I	30
33.	NTA JEE Main	09.04.2019	Shift-II	30
34.	NTA JEE Main	08.04.2019	Shift-I	30
35.	NTA JEE Main	08.04.2019	Shift-II	30
36.	NTA JEE Main			30
37.	NTA JEE Main	12.01.2019	Shift-I	
38.	NTA JEE Main	12.01.2019	Shift-II	30
39.	NTA JEE Main	11.01.2019	Shift-I	30
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741	NTA JEE Main	10.01.2019	Shift-II	30
T42.	NTA JEE Main NTA JEE Main	09,01,2019	Shift-I	30
143.	JEE Main	09,01,2019	Shift-II	30
144.	JEE Main	16.04.2018	CULT.	30
145.	JEE Main	15.04.2018	Shift-I	30
146.	JEE Main	15.04.2018	Shift-II	30
147.	JEE Main	08,04,2018	10,000	30
148.	JEE Main	09.04.2017	1000	30
149.	JEE Main	08.04.2017	The state of the s	30
150.	JEE Main	02.04.2017		30
151.	JEE Main	2016	CORPO	30
152	JEE Main	2015	or and real participations it desired	30
153.	JEE Main	2014		
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155.	AIEEE	2012	the second second	30
156.	AIEEE	2011		30
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158.	AIEEE	2009	201	30
150	AIEEE	2008		30
160.	AIEEE	2007	-	30
161.	AIEEE	2006		30
162.	AIEEE	2005		30
163.	AIEEE	2004		30
103.	AIEEE	2003		30
164.	AIEEE	2002		30
165.	All	India Institute of Medical S	ciences (AIIMS)	
166.	TAIIMS	26.05.2019	Shift-I	60
167.	AIIMS	26.05.2019	Shift-II	60
168.	AIIMS	25.05.2019	Shift-I	60
169.	AIIMS	25.05.2019	Shift-II	60
170.	Alims	2018		60
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172.	AllMS	2015	7.7	60
173.	AllMS	2013		60
174.	AIIMS	2013		60
175.	AIIMS			60
176.	AIIMS	2012		60
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192.	AIIMS	1996	400,000	60
193.	1111110	1994	Indian (CPP)	W
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194.	ASSAM-CEE	31.07.2022		40
195.	ASSAM-CEE	2021		40
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200.	ASSAM-CEE		E.M. E. C.	40
201.	ASSAM-CEE	na Agriculture and Medic	al Common Entrance Test (A	P EAMCET)
203	Andnra Pradesh Engineeri	2017		40
202.	AP EAMCET Medical	2016		40
203.	AP EAMCET Medical	2015	The second second	40
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210. 211.	AP EAMCET Medical	2008		

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275 AP EXISTED Engineering 12,07,2022 Shint-II 40	27/2/19	Andhra Pradesh Engineering A	priculture and Medical	Common Entrance Test	(AP EAMCET)
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275 AP EANICE Engineering 08.07/2022 Shift-I 40	226.	I CALL DAME IN I REPORTED TO THE PARTY OF TH	11.07.2022		40
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236. AP EAMCET Engineering	235.	AP EAMCET Engineering		Skilleri	
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285.	AP EAMCET Engineering	23.04.2018	Shift-II	40
286.	AP EAMCET Engineering	22,04,2018	Shift-I	40
287.	AP EAMCET Engineering	22,04,2018	Shift-II	40
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289.	AP EAPCET Engineering	28.04.2017	Shift-II	40
290.	AP EAMCET Engineering	26,04,2017	Shift-I	40
291.	1 AP EAMCET Engineering	26.04.2017	Shift-II	40
292.	AP EAMCET Engineering	26.04.2017		40
293.	AP EAMCET Engineering	25.04.2017	Shift-I	40
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296.	AP EAMCET Engineering	24.04.2017	Shift-II	40
297.	AP EAMCET Engineering	2017		40
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302.	AP EAMCET Engineering	2011	ALL SALES AND ADDRESS.	40
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358.	DITOAT	2020	40
359.	BITSAT	2019	40
360.	BITSAT	2018	40
361.	BITSAT	2017	40
363	BITSAT	2016 2015	40
364.	BITSAT	2014	40
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3.(3.	Consortium of Med	cal, Engineering and Dental Colleges of Karnat	40
374.	COMEDK-JEE	2020 Congression Rarnati	aka (COMEDK)
375.	COMEDK-JEE	2019	60
376.	COMEDK-JEE	2018	60
377.	COMEDK-JEE	2017	60
378.	COMEDK-JEE	2016	60
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382.	COMEDK-JEE	2012	60
383.	COMEDK-JEE	2011	60
207	Chhattisgarh-PET	hhattisgarh Pre-Engineering Test (CGPET)	
384. 385.	Chhattisgarh-PET	22.05.2022 2021	50
386.	Chhattisgarh-PET	2021	50
387.	Chhattisgarh-PET	2019	50
388.	Chhattisgarh-PET	2017	50
389.	Chhattisgarh-PET	2016	50 50
390.	Chhattisgarh-PET	2015	50
391.	Chhattisgarh-PET	2014	50
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399.	Chhattisgarh-PET	2006	50
400. 401.	Chhattisgarh-PET Chhattisgarh-PET	2005	50
401.	Chnauisgam-PE1	2004	50
402.	DCE	Delhi College of Engineering (DCE)	- W. S
403.	DCE	2009 2007	60
700.		Gujarat Common Entrance Test (GUJCET)	60
404.	GUICET	18.04.2022	1907 195
405.	GUJCET	06.08.2021	40
406.	GUICET	2020	40
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408.	GUICET	2019	40
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417	Hima	chal Pradesh Common Entrance Test (HPCET	10
417.	HPCEI	2018	20
418.	Jamme Jamme	and Kashmir Common Entrance Test (JKCE)	D
419.	JACEI	2019	75
420.	JKCET	2018	75
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	Jawaharial Institu	te of Postgraduate Medical Education and Re	search (JIPMER) 60
441.	JIPMER	2019	60
442.	JIPMER	2018	60
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453.	TIPMER	2007	60
454.	JIPMER	2006	60
434.	JIPMER	2005	60
455. 456.	TIDLED	2004	
430.	Jharkhand	Combined Entrance Competitive Examinatio	n (JCECE) 50
457.	JCECE	2018	50
458.	ICECE	2017	50
459.	JCECE	2016	50
	JCECE	2015	
460.	JCECE	2014	50
461.	JCECE	2013	50
462	JCECE	2012	50
463.	JCECE	2011	50
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465.	ICECE	2009	50
466.	JCECE	2008	50
467.	JCECE .	2007	50
468.	JCECE	2006	50
469.	JCECE	2005	50
470.	ICECE	2004	50
471.	JCECE	2003	50
472.	JCECE	Commissioner for Entrance Examinations (I	(-CEE)
	Keraia	04.07.2022	60
473.	Kerala CEE	2021	60
474.	Kerala CEE	2020	60
475.	Kerala CEE	2020	60
476.	Kerala CEE	2019	60
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487.	Kerala CEE	2007	60
488.	Kerala CEE	2006	
489.	Kerala CEE	2005	60
490.	Kerala CEE	2004	60
491.	Kerala CEE	Karnataka Common Entrance Test (K-CET	
	Charles and Charle	Karnataka Common Entrance Test (18 222	60
492.	Kamataka-CET	17,00.2022	60
493.	Kamataka-CET	2021	60
494.	Karnataka-CET	2020	60
495.	Kamataka-CET	2019	60
496.	Karnataka-CET	2018	60
497.	Karnataka-CET	2017	60
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498.	Karnataka-CET		

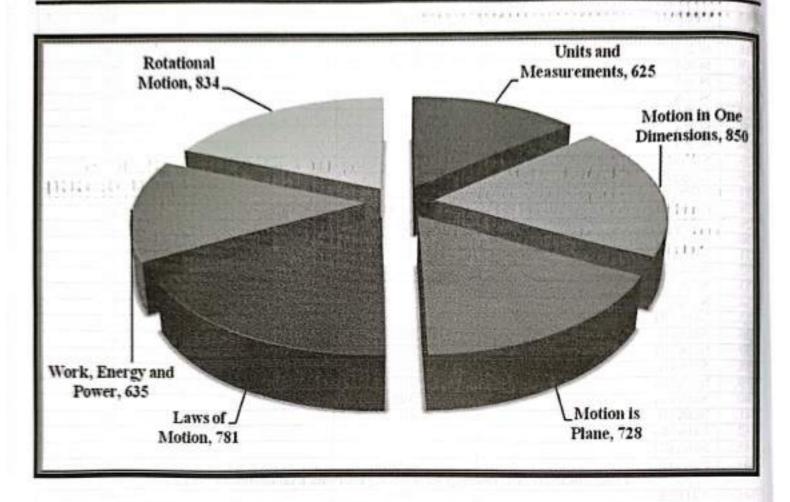
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	Karnataka-CET	2015		60
500.	Karnataka-CET	2014		60
501.	Karnataka-CET	2013		60
502.	Karnataka-CET	2012		60
503.	Kamataka-CET	2011		60
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507.	Kamataka-CET	2007		60
508.	Karnataka-CET	2006		60
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310.	Karnataka-CET	2004		60
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312	Karnataka-CET	2002		60
313.	Karnataka-CET	2001		60
210	Kurimana-CE1	Kishore Valgyanik Protsahar	Volume (VV)mVs	60
314.	KVPY SA	2021	I YOJANA (KVPY)	36
315.	KVPYSX	2021		20
516.	KVPY SA			20
	KVPYSX	2020		20
517.		2020		20
518.	KVPY SA	2019		20
519.	KVPY SX	2019		20
520.	KVPY SA	2018		20
521.	KVPY SX	2018		20
522.	KVPY SA	2017		20
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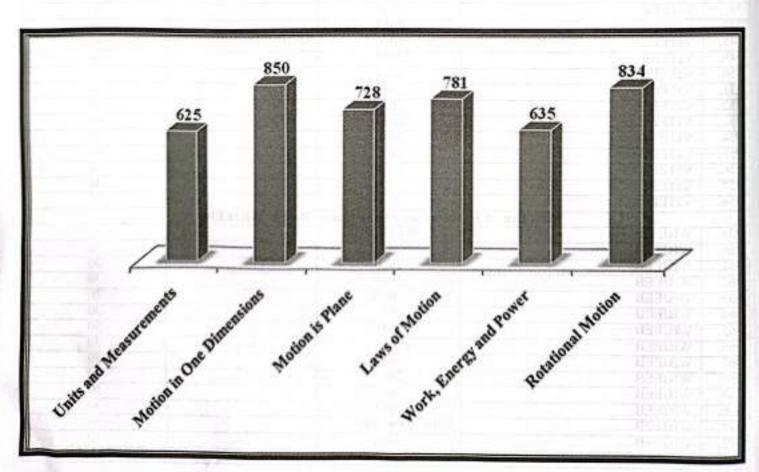
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644.	TS EAMCET	05.08.2021	Shift-II	40
645.	TS EAMCET	04.08.2021	Shift-I	
646.	TS EAMCET	04.08.2021	Shift-II	40
647.	TS EAMCET	29.09.2020	Shift-I	40
648.	TS EAMCET		Shift-II	40
649.	13 EAMCET	29,09.2020	Shin-ii	40
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650.	TS EAMCET	28,09,2020	Shift-II	
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656.	TS EAMCET	10.09,2020	Shift-II	40
657.	TS EAMCET	09.09.2020	Shift-I	40
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659.	TS EAMCET	09.05.2019	Shift-I	40
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759.	WBJEEB	30.04.2022		30
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Trend Analysis of NEET/JEE Main Physics Questions Through Pie chart and Bar Graph







Unit and Measurement

Physical Quantities

- The two principal thrusts in physics are
 - (a) Diversification and complete
 - (b) Unification and simplification
 - (c) Unification and reduction
 - (d) Diversification and simplification

AP EAMCET-08.07.2022, Shift-II

Ans. (c): The two principal thrusts in physics are Unification and Reduction.

- Choose the correct statement from following. 2.
 - (a) Not all basic laws of physics are universal
 - (b) Conservation laws have a deep connection with symmetries of nature
 - (c) There are four to six fundamental forces in nature that govern the diverse phenomena of
 - (d) Physics can generate new technology but new physics cannot come out from technology

TS EAMCET 18.07.2022, Shift-I

Ans. (b): A conservation law is a hypothesis based on observations and experiments.

- · Conservation of law is a principle that states that a certain physical property does not change in the course of time within an isolated physical system.
- · Conservation laws have a deep connection with symmetries of nature.
- One angstrom (Å) is equal to:
 - (a) 10⁻⁶mm
- (b) 10⁻⁷mm
- (c) 10⁻⁸mm
- (d) 10⁻⁹ mm

AP EAMCET-20.08.2021, Shift-II

Ans. (b): One angstrom is equal to = 1×10^{-7} mm

$$\therefore 1 \text{ Å}^{\circ} = 10^{-10} \text{ m}$$

= $10^{-10} (10^3) \text{ mm}$ {1 m = 10^3 mm }
= 10^{-7} mm

- physical quantity. maximum which percentage change will be observed, when a copper sphere is heated?
 - (a) radius
- (b) area
- (c) volume
- (d) length

AP EAMCET-25.09.2020, Shift-I

Ans. (c): When a copper sphere is heated then maximum percentage change will be observed in its volume.

- Change in Area (A) = 4πr²
- $\therefore \frac{\Delta A}{A} = 2\left(\frac{\Delta r}{r}\right) = \text{Two times the percentage change}$
- · Change in volume

$$V = \frac{4}{3}\pi r^3$$

 $\therefore \frac{\Delta V}{V} = 3 \left(\frac{\Delta r}{r} \right) = 3$ times the percentage change in radius

So, maximum change will occur in volume, when a copper sphere is heated.

- The angle of 1' (minute of arc) in radian is nearly equal to

 - (a) 2.91×10^{-4} rad (b) 4.85×10^{-4} rad
 - (c) 4.80 × 10⁻⁶ rad (d) 1.75 × 10⁻² rad

[NEET (Oct.) 2020]

Ans. (a): We know that,

1' (minute of arc) =
$$\left(\frac{1}{60}\right)^2$$

= $\frac{1}{60} \times \frac{1}{1}$

$$=\frac{\pi}{60\times180}$$

$$=\frac{3.14}{10800}$$

$$=0.0291\times10^{-2}$$

- = 2.91×10⁻⁴ radian
- A dimensionless physical quantity 6.
 - (a) may have a unit
- (b) always has a unit
- (c) never has a unit
- (d) does not exist

AP EAMCET-24.09.2020, Shift-II

Ans. (a): A dimesnsionless physical quantity may have a unit. It cannot be expressed in term of SL quantities. e.g. Radian in the unit for an angle, but it is dimesionless

because it is defined to be the ratio of two lengths.

- The density of a material in SI units is 128 kg m-3. In certain units in which the unit of length is 25 cm and the unit of mass is 50 g, the numerical value of density of the material is
 - (a) 40
- (b) 16
- (c) 640
- (d) 410

JEE Main-10.01.2019, Shift-I

Ans. (a): We know that

Density =
$$\frac{\text{Mass}}{\text{Volume}} = \frac{\text{M}}{\text{V}} = \frac{\text{M}}{\text{L}^3}$$

Then, $n_1u_1 = n_2u_2$

128 [M₁L₁⁻³]=n₂ [M₂L₂⁻³]

$$n_2 = \frac{128[M_1L_1^{-3}]}{[M_2L_2^{-3}]}$$

n₁ = numerical value in S.I unit

 $u_1 = unit in S.I.$

 n_2 = numerical value in other unit

us = unit in other system

(c) 1× m

In second unit system m =
$$50g = \frac{50}{1000} \text{kg}$$
.

$$L = 25 \text{cm} = \frac{25}{100} \text{mtr}$$

$$n_2 = 128 \left[\frac{M_1}{M_2} \right] \left[\frac{L_2}{L_1} \right]^3$$

$$= 128 \times \left[\frac{1}{\frac{50}{1000}} \right] \times \left[\frac{25}{\frac{100}{1}} \right]^3$$

$$= 128 \times 20 \times \left(\frac{1}{4} \right)^3$$

$$= 128 \times 20 \times \left(\frac{1}{64} \right)$$

- The range of masses we study in Physics is

 - (a) 10^{-27} to 10^{60} kg (b) 10^{-27} to 10^{55} kg (c) 10^{-30} to 10^{55} kg (d) 10^{-30} to 10^{60} kg

COMEDK 2019

Ans. (c): The electron is considered to be the particle with least mass of 10-30 kg. The mass of the known universe is considered to have the highest mass of 1055 kg.

- How many astronomical units are there in 1 metre
 - (a) 6.68 × 10¹² Au
- (b) 6.68×10^{-10} Au
- (c) 6.68 × 1010 Au
- (d) 6.68×10^{-12} Au

SRMJEE-2019

Ans. (d): 1 Au =
$$1.496 \times 10^{11}$$
 m
1 m = $\frac{1}{1.496 \times 10^{11}}$ Au
1 m = 6.68×10^{-12} Au

- What is dimensions of energy in terms of linear momentum (P), area of (A) and Time (T)
 - (a) [P'A'T']
- (b) [P2A2T-1]
- (c) [P'A12T-1]
- (d) [P1/2 A1/2 T-17

JIPMER-2019

Ans. (c) : Let,

Energy
$$E = k P^a A^b T^c$$
(i

Where k is a dimensionless constant of proportionality-

Writing dimension on both sides-

 $[ML^2T^{-2}] = [MLT^{-1}]^a[M^0L^2T^0]^b [M^0L^0T]^c$ $[ML^2T^{-2}] = [M^aL^{a+2b}T^{-a+c}]$

Comparing the power from both sides-

$$a = 1$$

....(ii)

$$a+2b = 2$$

....(iii)

$$-a+c=-2$$

....(iv)

On solving (ii), (iii) and (iv), we have-

a = 1, b = 1/2, c = -1 $[E] = [P^1A^{1/2}T^{-1}]$

- So, If $10 \text{ g cms}^{-1} = x \text{ Ns.}$ then the number is
 - (a) 1×10^{-5}
- (b) 1 × 10-4
- (c) 1× 10-6
- (d) 1 × 10⁻³

AP EAMCET-24.04.2018, Shift-II

 $1g = 10^{-3} \text{ kg}$

1 cm = 10-2 m

According to question-10 gcms⁻¹ = 10⁻³ kg ×10⁻²m×sec⁻¹

$$= 10^{-5} \text{ Ns} \qquad \left[N = \frac{\text{kgm}}{\text{sec}} \right]$$

- Order of magnitude of a physical quantity is
 - (a) Power of 5 of the number that describes the
 - (b) Power of 10 of the number that describes the
 - (c) Power of 100 of the number that describes the
 - (d) Power of 0.01 of the number that describes the quantity

J&K-CET-2018

Ans. (b): The order of magnitude of a physical quantity is the power of 10 of the number that describes the quantity. It tells us about the largeness or smallness of a physical quantity. It is expressed in the form of a × 10^b where $1 \le a < 10$ and b is a positive or negative integer,

- A star is very far from earth. If light 10 years from it to reach the earth, calculate the distance between star and earth.
 - (a) 9.45×10^{16} m
- (b) 9.46×10^{-16} m
- (c) 9.46×10^{17} m
- (d) 9.46×10^{-17} m

SRM JEE-2018

We know that One-light year is the distance Travelled by light in one year.

1 light year =
$$9.46 \times 10^{12}$$
km = 9.46×10^{15} m

So.

10 light year =
$$9.4 \times 10^{15} \times 10 \text{ m}$$

- It is estimated that cm2 of earth receives about 14. 2 calorie of heat energy per minute from the sun. This is called solar constant, the value of solar constant in S.I. units is
 - (a) 2 J m²s⁻¹
- (b) 1.4 Wm⁻²
- (c) 2.4 kWm⁻²
- (d) 1.4 kJm⁻²s⁻¹

AP EAMCET-25.04.2017, Shift-I

Ans. (d) : Given that,

It is estimated that cm2 of earth receives about 2 calorie of heat energy per minute from the sun.

 $S = 2 \text{ cal/cm}^2\text{-min}$

We know that,

1 cal = 4.18 J

 $1 \text{ cm} = 10^{-2} \text{ m}$

1 min = 60 sec

$$\therefore S = \frac{2 \times 4.18}{(10^{-2})^2 \times 60} \frac{J}{m^2 - \sec}$$

 $S = \frac{2 \times 4.18}{}$

$$S = \frac{4.18 \times 10^4}{30}$$

$$S = 0.13933 \times 10^4$$

$$S = 0.14 \times 10^4$$

$$S = 1.4 \times 10^3 \frac{J}{m^2 - \sec}$$

$$S = 1.4 \frac{kJ}{m^2 - \sec}$$

A physical quantity of the dimensions of length

that can be formed out of C, G and $\frac{e^2}{4\pi\epsilon_a}$ is [c]

is velocity of light, G is universal constant of gravitation and e is charge]

(a)
$$\frac{1}{C^2} \left[G \frac{e^2}{4\pi\epsilon_0} \right]^{1/2}$$

(a)
$$\frac{1}{C^2} \left[G \frac{e^2}{4\pi\epsilon_0} \right]^{1/2}$$
 (b) $C^2 \left[G \frac{e^2}{4\pi\epsilon_0} \right]^{1/2}$

(c)
$$\frac{1}{C^2} \left[G \frac{e^2}{4\pi\epsilon_0} \right]$$
 (d) $\frac{1}{C^2} G \frac{e^2}{4\pi\epsilon_0}$

(d)
$$\frac{1}{C^2}G\frac{e^2}{4\pi\epsilon_0}$$

NEET 2017

[NEET 2017]

Ans. (a): Let,
$$L \propto C^{x}G^{y} \left(\frac{e^{2}}{4\pi\epsilon_{0}}\right)^{x}$$
So, $[L] = [C]^{x}[G]^{y} \left[\frac{e^{2}}{4\pi\epsilon_{0}}\right]^{z}$
Dimension of $[L] = [M^{0}L^{1}T^{0}]$
Dimension of $[C] = [M^{0}L^{1}T^{-1}]$
Dimension of $[G] = \left[\frac{Fr^{2}}{m_{1}m_{2}}\right] = \frac{\left[M^{1}L^{1}T^{-2}\right](L)^{2}}{M^{2}}$

$$= [M^{-1}L^{3}T^{-2}]$$

Dimension
$$\left(\frac{e^2}{4\pi\epsilon_0}\right) = \frac{(LT.)^2}{[M^{-1}L^{-3}T^4I^2]} = [M^1L^3T^{-2}I^0]$$

$$[L] = [C]^x [G]^y \left[\frac{e^2}{4\pi\epsilon_0} \right]^z$$

Putting dimension both sides-

$$[M^0L^1T^0] = [M^0L^1T^{-1}]^x \cdot [M^{-1}L^3T^{-2}]^y [M^1L^3T^{-2}]^z$$

$$= [M^0L^xT^{-2x}] [M^{-y}L^{3y}T^{-2y}] [M^zL^{3z}T^{-2z}]$$

$$= [M^{-y+z} L^{x+3y+3z} T^{-x-2y-2z}]$$

Comparing the powers from both sides.

z-y

Now putting the value of 'z' in eqn (ii)

$$x+3y+3z = 1$$

$$x+3y+3y = 1$$

Putting the value of z in eqn.....(iii)

$$-x-2y-2y=0$$

$$-x-4y=0$$

 $x=-4y$
Now putting the value of x in eqⁿ.......(iv)
 $x + 6y = 1$
 $-4y + 6y = 1$
 $2y = 1$
 $y = \frac{1}{2}$
from eqⁿ (i)
 $z = y$
So, $z = \frac{1}{2}$

Now, Putting the value as 'y' in eq" .. (iv)

$$x+6y=1$$

$$x + 6 \times \frac{1}{2} = 1$$

$$x = -2$$

Now, Put the value of x, y, z

$$L = KC^{-2}G^{\frac{1}{2}}\left(\frac{e^2}{4\pi\epsilon_0}\right)^{\frac{1}{2}}$$

Then,
$$L = \frac{1}{C^2} \left(\frac{Ge^2}{4\pi\epsilon_n} \right)^{\frac{1}{2}}$$

16. In CGS system the magnitude of the force is 100 dynes. In another system, where the fundamental physical quantities are kilogram, metre and minutes. The magnitude of the force

- (a) 0.9
- (b) 3.6
- (c) 2.7
- (d) 1.8

TS EAMCET 28.09.2020, Shift-II EAMCET-2001

Ans. (b) : Let, $n_1u_1 = n_2u_2$ on writing their dimension both sides-

Now,
$$n_2 = n_1 \left(\frac{u_1}{u_2} \right)$$

$$n_2 = n_1 \left[\frac{M_1}{M_2} \right] \left[\frac{L_1}{L_2} \right] \left[\frac{T_1^{-2}}{T_2^{-2}} \right]$$

$$=100 \left[\frac{\text{gm}}{\text{kg}} \right] \left[\frac{\text{cm}}{\text{m}} \right] \left[\frac{\text{sec}}{\text{min}} \right]$$

$$=100 \left[\frac{1}{1000} \text{g} \right] \left[\frac{1}{100} \text{cm} \right] \left[\frac{1}{60} \text{sec} \right]^{2}$$

$$=100 \times \frac{1}{1000} \times \frac{1}{100} \times 3600$$

So,
$$n_2 = 3.6$$

The major contribution of Sir C.V. Raman is

(a) Explanation of photoelectric effect

(b) Principle of buoyancy

(e) Scattering of light by molecules of a medium

(d) Electromagnetic theory

AP EAMCET(Medical)-2014

Ans. (c): The academy of sciences has resolved to accord the Noble Prize in Physics for 1930 to Sir Chandrasekhara Venkata Raman for his work on the scattering of light and for the discovery of the effect namad after him.

Pick out the stranger

- (a) Newton-Meter
- (b) Coulomb-Volt
- (c) Coulomb-Farad
- (d) Watt-Second

SRMJEE - 2014

The prefix atto means

- (a) 10⁻²¹
- (b) 10⁻¹⁵
- (c) 10⁻¹⁸
- (d) 10⁻¹²

SRMJEE - 2015

Ans. (c): Atto stands for 10-18

A bus travels at 110 km/hr (kilometers per hour) on open highway. Its speed in meters per second is

- (a) 30.6m/s
- (b) 60.2m/s
- (c) 40m/s (d) 50.4m/s

SRMJEE - 2015

Ans. (a):
$$S = \frac{110 \text{km}}{\text{hr}} = \frac{110 \times 1000}{60 \times 60}$$

= $110 \times \frac{5}{18} \text{ m/s}$
= 30.6 m/s

21. The prefix giga means

- (a) 10⁻⁹
- (b) 10°
- (c) 106
- (d) 10-6

SRMJEE - 2016

Ans. (b): Giga stands for 109.

- In a new system of units, unit of mass is 10 kg, unit of length is 1 km and unit of time is 1 minute. The value of 1 joule in this new hypothetical system is
 - (a) 3.6×10-4 new units
 - (b) 6×107 new units
 - (c) 1011 new units
 - (d) 1.67 × 104 new units

COMEDK 2016

Ans. (a): Given, M = 10 kg, L = 1 km, T = 1 minuteNow, let n1 and n2 are the S.I unit and unit of new system.

Here, $n_1 = 1J$

The dimensional formula of energy is [ML²T⁻²]

So, S.I unit of energy = new system

$$n_1([M_1L_1^2T_1^{-2}]) = n_2([M_2L_2^2T_2^{-2}])$$

$$\begin{split} \frac{n_1}{n_1} &= \left(\frac{M_1}{M_2}\right) \left(\frac{L_1}{L_2}\right)^2 \left(\frac{T_1^{-2}}{T_2^{-2}}\right) & \text{if } n_1 \\ \frac{n_2}{n_1} &= \left(\frac{1}{10}\right) \times \left(\frac{1}{1000}\right)^2 \times \left(\frac{1}{60}\right)^{-2} & \text{if } n_2 \\ \frac{n_2}{n_1} &= 1 \times \frac{36}{100000} \\ n_2 &= 1 \times 3.6 \times 10^{-4} \text{ J} \\ n_2 &= 3.6 \times 10^{-4} \text{ J} \end{split}$$

Which of the following physical quantity uni-23. not a fundamental unit?

- (a) Length
- (b) Mass
- (c) Magnetic field
- (d) Current

Ans. (c) : Magnetic field is not a fundamental in Fundamental units are length, mass, time, temperation amount of substance, current, luminous intensity. The units are used to measure the fundamental quantities

- Density of liquid in CGS system is 0.625 g/cs. What is its magnitude in SI system?
 - (a) 0.625
- (b) 0.0625
- (c) 0.00625
- (d) 625

J&K CET- 200

Ans. (d) : Given that,

Density =
$$\frac{\text{Mass}}{\text{Volume}}$$
 = 0.625g/cm³
= $\frac{0.625 \times 10^{-3} \text{kg}}{10^{-6} \text{m}^3}$
= 0.625 × 10³ kg/m³
= 625 kg/m³

The following physical quantities has a ratio o 25. 103 between its SI units and CGS units

- (a) Universal gravitational constant
- (b) Boltzman's constant
- (c) Planck's constant
- (d) Young's modulus of elasticity

EAMCET-19

Ans. (a): Universal gravitational constant

$$SI \text{ unit} = \frac{N-m^2}{kg^2}$$

$$CGS \text{ unit} = \frac{\text{dyne-cm}^2}{gm^2}$$

$$Ratio = \frac{SI \text{ unit}}{CGS \text{ unit}} = \frac{N-m^2}{kg^2} \times \frac{gm^2}{\text{dyne-cm}^2}$$

$$N-m^2 = (10^{-3} \text{kg})^2$$

Hence, the ratio of universal gravitational constant has 10³ between its SI unit and CGS units.

- In a particular system, the unit of length, mass 26. and time are chosen to be 10 cm, 10 g and 0.1 s respectively. The unit of force in this system will be equivalent to
 - (a) 0.1 N
- (b) 1 N
- (c) 10 N
- (d) 100 N

IAIPMT 1994

Ans. (a) : We know that

$$1N = \frac{1kg \times 1m}{1 - s^2}$$

$$=\frac{1000g \times 100cm}{1-s^2}$$

$$= \frac{100 \times (10g) \times 10 \times (10cm)}{100 \times (0.1)^2}$$

$$F_{\text{new}} = \frac{1}{10}N = 0.1N$$

- The value of Planck's constant in SI unit is

 - (a) 6.63×10^{-31} J-s (b) 6.63×10^{-30} kg-m/s
 - (c) $6.63 \times 10^{-32} \text{ kg-m}^2$ (d) $6.63 \times 10^{-34} \text{ J-s}$

[AIPMT 2002]

Ans. (d): Value of Planck's constant in SI unit is 6.63×10⁻³⁴ j-s.

Planck's constant defines the behaviour of particles and waves on atomic scale. S.I. unit of Planck's constant is Joule-second (J.s.).

- In a new system of units called star units, 28. 1kg =10 kg, 1m = 1 km and 1s =1 minute, what will be the value of 1 J in the new system?
 - (a) $2.4 \times 10^{-5} \text{J}^{\circ}$
- (b) 3.6 × 10⁻⁴J
- (c) $4.2 \times 10^{-3} \text{J}^{*}$
- (b) 3.6 × 10⁻⁷J (d) 4.2 × 10⁻²J

Ans. (b): 1 kg = 10 kg

[:: 1 m = 1/1000 m]

1 m = 1000 m

1 s = 1 minute

1 sec = 60 sec. [:. 1 sec = 1/60 sec] Energy = $[M^{1}L^{2}T^{-2}]$

1 Joule = $1 \text{ kg} \times 1 \text{m}^2 \times (\text{sec})^2$

$$= \frac{1}{10} \text{kg} \times \left(\frac{1}{1000} \text{m}\right)^2 \times \left(\frac{1}{60} \text{s}\right)^{-2}$$

$$= \frac{1}{10} \text{kg} \times (10^{-3})^2 \times \left(\frac{1}{60}\right)^{-2} (\text{s})^{-2}$$

$$= \frac{1}{10} \times 10^{-6} \times (60)^2 \frac{\text{kg}(\text{m})^2}{(\text{s})^2}$$

$$1 \text{ Joule} = 3.6 \times 10^{-4} \frac{\text{kg(m)}^2}{(\text{s})^2}$$

- 29. A new unit of length is so chosen that the speed of light in vacuum is unity. Calculate the distance (in this new unit) between the sun and the earth if light takes 8 min and 20 seconds to reach earth from sun.
 - (a) 300
- (b) 400
- (c) 500
- (d) 600

AMU-2012

Ans. (c) : Given that, and telephone and her and

The speed of light in a vacuum is unity,

Time = 8 min and 20 sec = 500 sec

We know that,

Distance = speed × time

Distance = 1×500

Distance = 500 unit

Hence, distance between sun and earth is 500 unit.

- 1 ns is defined as
 - (a) 10⁻⁹ s of Kr- clock of 1650763.73 oscillations
 - (b) 10-9 s of Kr- clock of 652189.63 oscillations
 - (c) 1019 s of Cs- clock of 1650763.73 oscillations
 - (d) 10-9s of Cs-clock of 9192631770 oscillations
 - **CG PET- 2009**

Ans. (d): 1 ns = 10-9 s of Cs-clock of 9192631770 oscillations.

Units (b)

- The unit of specific resistance is 31.

 - (a) ohm/m² (b) ohm/m³
 - (c) ohm m
- (d) ohm/m

BITSAT-2013, SCRA-1989 MPPET-1984, UPCPMT-1975

Ans. (c): We know that,

$$R = \rho \frac{l}{A}$$

ρ = specific resistance

$$\rho = \frac{RA}{I}$$

$$\rho = \frac{\text{ohm} \cdot \text{m}^2}{\text{m}}$$

Unit of $\rho = ohm - m$

- The unit of magnetic moment is
 - (a) A-m2
- (b) A-m
- (c) A- m3
- (d) kg-m²

CG PET- 2006, AMU-2002 MP PET-1996, 1989

MP PMT-2002, 1995

Ans. (a): Magnetic moment is the product of the current flowing and area.

$$M = I \times A$$

= Ampere-m2

- What is the SI unit of Stefan-Boltzmann's 33. constant o?
 - (a) W m⁻² K⁻⁴
- (b) W m² K⁴
- (c) W K-4
- (d) erg s⁻² K⁻⁴

COMEDK 2018, Karnataka CET - 2006 AIPMT-2002, MP PET-1992

AFMC-1986, MP PMT-1992, 1989

Ans.(a): According to stefan's law, energy per unit time 37. $(E/t) = \sigma A T^4$

$$\sigma = \frac{E/t}{AT^4}$$

$$\sigma = \frac{W}{m^2K^4}$$

$$= Wm^2K^4$$

The SI unit of Stefan's constant = W.m-2.K-4 and CGS unit is = Erg.cm'

Match List with List II.

List- I		List -II		
(A)	Torque	(I)	Nms ⁻¹	
(B)	Stress	(11)	J kg 1 to it	
(C)	Latent heat	(III)	Nm	
(D)	Power	(IV)	Nm ⁻²	

Choose the correct answer from the options given below:

- (a) A-III, B-II, C-I, D-IV
- (b) A-III, B-IV, C-II, D-I
- (c) A-IV, B-I, C-III, D-II
- (d) A-II, B-III, C-I, D-IV

JEE Main-29.07.2022, Shift-II

Ans. (b) (A) Torque (B) Stress Nm^{-2} (iv) J Kg-(C) Latent heat (ii) (D)

- In SI units, kg m2 s2 is equivalent to which of 35. the following?
 - (a) newton
- (b) watt
- (c) joule
- (d) pascal

AP EAMCET-04.07.2022, Shift-II

Ans. (c): Given unit is Kg M2s-

Dimension of given unit is = $[ML^2T^{-2}]$

Dimension of work (Joule)

= Force × displacement $= [M^1L^1T^{-2}] \times [L^1]$ $= [ML^2T^{-2}]$

So, the SI unit of Kg m2s-2 is equivalent to Joule.

- If the unit of length, mass and time each be doubled, the unit of work is increased by
 - (a) 2 times
- (b) 4 times
- (c) 6 times
- (d) No change

Assam CEE-31.07.2022

Ans. (a)

Dimension formula of work (W) = ML^2T^{-2}

$$= M \frac{L^2}{T^2}$$

if the unit of L, M, and T are doubled, then the new unit of work

$$=(2M)\cdot\frac{(2L)^2}{(2T)^2}=2\left[M\frac{L^2}{T^2}\right]=2W$$

... The unit becomes two times

- If E and H represent the intensity loft bleche field and magnetising field respectively, the the unit of E / H will be
 - (a) ohm
- (b) mho , , ,
- (c) joule
- (d) newton

JEE Main-27.08.2021, Shift.

Ans. (a): The impedance in free space $(z_0) = \frac{E}{H}$

Thus, unit of $\frac{E}{H}$ is ohm.

- 38. The unit of current element is
 - (a) A m
- (b) Am1
- (c) Am2
- (d) Am⁻²

AP EAMCET-06.09.2021, Shift-1

Ans. (a): The unit of current element is ampere- meter (Am).

- A force 'F' is given as F = Pt1 + Qt, where ' 39. denotes time. Then, the unit of 'P' must b same as that of
 - (a) Displacement
- (b) Velocity
- (c) Acceleration
- (d) Momentum

AP EAMCET-06.09.2021, Shift-II

Ans. (d): Given as F= Pt-1 + Qt

We know that Dimensional formula of force=[MLT⁻²]

From the principle of dimensional homogeneity

$$F = Pt^{-1}$$

$$[MLT^{-2}] = P[T^{-1}]$$

So, Dimensional formula of $P = [MLT^{-1}]$

Momentum formula = $m \times v \Rightarrow [MLT^{-1}]$

Hence, the unit of 'P' must be same as that of momentum.

- If time (t), velocity (v) and angular momentum (I) are taken as the fundamental units, then the dimension of mass (m) in terms of t,v and I is

- $\begin{array}{lll} \text{(a)} & \left[t^{-l}v^{l}I^{-2}\right] & \text{(b)} & \left[t^{l}v^{2}I^{-l}\right] \\ \text{(c)} & \left[t^{-2}v^{-l}I^{l}\right] & \text{(d)} & \left[t^{-l}v^{-2}I^{l}\right] \\ \end{array}$

JEE Main-20.07.2021, Shift-II

Ans. (d) : We know,

Dimension of time (t) = [T]

Dimension of velocity $(v) = [LT^{-1}]$

Dimension of angular momentum $(I) = [ML^2T^{-1}]$

So, m

t^av^bI^c

 $m \propto [T]^{4}[LT^{-1}]^{6}[ML^{2}T^{-1}]^{c}$

 $ML^{b}T^{0} = [M]^{c}[L]^{b+2c}[T]^{a-b-c}$

So, C = 1,
$$b+2c=0$$
. $a-b-c=0$
 $b+2=0$ $a+2-1=0$

$$b + 2 = 0$$

$$a+2-1=0$$

$$b = -2$$

$$a = -1$$

So,
$$m \propto [t^{-1}v^{-2}I^{1}]$$

41. Match List-I with List-II

and at , 7 2 % the made List-I made and the the List-II

- A. R_H (Rydberg constant)
- B. h (Planck's constant)
- C. μ_B (Magnetic field energy density)
- D. n (Coefficient of kg m-1s-2 viscosity)

Choose the most appropriate answer from the options given below.

ABCD

- (a) 2
- (b) 3 2
- (c) 4 2 1 3
- (d) 3 2 1 4

JEE Main-27.08.2021, Shift-II

Ans. (b): Unit of Rydbery constant (R_H) = m⁻¹

Unit of plank's constant (h) = kg m2s-1

Unit of magnetic field energy density $(\mu_B) = kg \text{ m}^{-1}\text{s}^{-2}$ Unit of coefficient of viscosity = kgm⁻¹s

So, option (b) is correct.

Which of the following is not a unit of time? 42.

- (a) Lunar month
- (b) Light year
- (c) Leap year
- (d) Microsecond

AP EAMCET (23.09.2020) Shift-I

Ans. (b) Lunar month, leap year and microsecond are the units of time but light year is the unit of distance and it is used to measure astronomical distance.

43. The unit of magnetic induction is

- (a) Wb m-2
- (b) Wb m⁻¹
- (c) Wb A
- (d) Wb

AP EAMCET (21.09.2020) Shift-I

The unit of magnetic Inuction = $\frac{\text{Weber}}{\text{meter}^2}$ = Wb.m⁻²

The SI unit of length is 'meter' suppose we adopt a new unit of length which equals x meter. Then, the area of 1 m2 expressed in terms of new unit has a magnitude

(a) x

- (c)

AP EAMCET (21.09.2020) Shift-I

Ans. (d) : Given,

SI unit of length = meter (m)

New unit of length = x meter

And,
$$1m = \frac{1}{x}$$
 (New units)

Hence,

$$A = 1 \times 1m^2$$

$$=\frac{1}{x} \times \frac{1}{x} = \frac{1}{x^2}$$

- The S.I unit of inductance is

- (a) Kg. m². S⁻². A⁻² (b) Kg. S⁻². A⁻¹ (c) Kg. m². S⁻². A⁻¹ (d) Kg. m². S⁻³. A⁻²

TS EAMCET 29.09.2020, Shift-I

Ans. (a): Inductance: -

Electromagnetic or magnetic induction is - the production of an electromotive force across an electrical conductor in a changing magnetic field.

$$v = L \times \left(\frac{di}{dt}\right)$$

L = value of Inductance (H)

- i = current
- t = time

Henry (H) is - the SI unit of inductance

$$[Volt] = [L] \frac{Ampere}{second}$$

This can be written as-

$$[L] = \left[\frac{\text{Volt} - \text{second}}{\text{ampere}} \right]$$

$$[L] = \frac{\text{Joule}}{\text{Ampere}^2}$$

$$[L] = \left[\frac{kg \, m^2 S^{-2}}{A^2}\right]$$

$$[L] = Kg m^2 S^{-2} A^{-1}$$

The unit of L/R is (where L= inductance and R 46. = resistance)

- (a) sec
- (b) sec'
- (c) volt
- (d) ampere

Manipal UGET-2019

Ans. (a):
$$\frac{L}{R} = \frac{\text{Henry}}{\text{ohm}} = \frac{\left(\frac{\text{volt}}{A/S}\right)}{\text{ohm}} = \frac{\text{volt.sec}}{\text{ohm.ampere}}$$

 L/R, CR and √LC all have dimensions of Time [T]. So unit will be second.

Unit of Magnetic Flux is:

- (a) Tesla (b) Gauss
- (c) Weber (d) Weber/m²

AIIMS-26.05.2019(E) Shift-2

Ans. (c): The SI unit of magnetic flux is weber (Wb). Weber is commonly expressed in a multitude of other units.

$$W_b = \frac{kg.m^2}{s^2.A} = V.s = H.A = T.m^2 = \frac{J}{A} = 10^8 mx$$

where,

Wb = Weber s = second

T = Tesla H = Henry

V = volt

A = Ampere

J = joule

Mx = Maxwell

48.	If P, Q and R are physical quantities having different dimensions, which of the following						
	combination o	an	never	be .	n,	meaningful	

(d) $\frac{PR - Q^2}{R}$

Karnataka CET-2019

Ans. (a): P , Q and R are physical quantities having different dimensions. By the principle of homogeneity, the physical quantities having different dimensions, can not be added or subtracted directly.

Hence, $\frac{P-Q}{R}$ is not a meaningful quantity.

SI unit of inductance is

- (a) Ampere
- (b) Ohm
- (c) Henry
- (d) Faraday

J&K-CET-2019

Ans. (c): SI unit of inductance is Henry. Inductance is the tendency of an electrical conductor to oppose a change in the electric current flowing through. It is denoted by H.

The unit of relative permittivity is

- (a) C²N⁻¹m⁻²
- (b) Nm2C-2
- (c) unitless
- (d) NC-2m-2

SRMJEE-2019

Ans. (c) : Relative permittivity (ε_t) =

As it is the ratio of permittivities hence, it has no unit.

Which of the following is both unitless and dimensionless?

- (a) Angle
- (b) Solid angle
- (c) Mechanical equilvalent of heat
- (d) Refractive index

SRMJEE-2019

Ans. (d): Refractive index is the property of a material to bend light when passing through one medium to another medium.

The ratio of the speed of light in a vacuum to the speed of light in a medium is called the refractive index of that medium.

Reflective index $(\eta) = \frac{\text{Speed of light in vacuum}(c)}{\text{Speed of light in medium}(v)}$

Since it is the ratio of speed, it has no dimension or

52. The C.G.S. unit of magnetic field at a point, due to Biot-Savart law is

- (a) Tesla
- (c) Tesla meter/Amp
- (d) Newton/Amp

J&K-CET-2019

Ans. (b): The Gauss is the CGS unit for the measurement of magnetic field (B) which is also called the magnetic flux density or the magnetic induction.

1 Gauss = 1 × 10⁻⁴ Tesla

The C. G. S. unit of magnetic field at a point is Gauss.

- In a system, unit of mass is A kg, length is B and time is C s, then the value of 10 N in the system is

 - (a) 10 A⁻¹ B⁻¹C⁻² (b) 10 A⁻¹ B⁻¹C² (c) 10 ABC⁻² (d) 5 A⁻¹ BC²

AP EAMCET (22.04.2018) Shift-le

Ans. (b): We know that, $N_1u_1 = N_2u_2$

$$10 \text{kg} \frac{\text{m}}{\text{s}^2} = N_2 \left(\frac{\text{A.B}}{\text{C}^2} \right)$$

$$\Rightarrow N_1 = \frac{10 \cdot C^2}{A \cdot B}$$
$$= 10A^{-1}B^{-1}C$$

So, numerical value of 10N in given system 10A-1B-1C2

kg m2s-3 A-2 is the SI unit of

- (a) Inductance
- (b) Resistance
- (c) Capacitance
- (d) Magnetic flux

AP EAMCET-25.04.2018, Shift

Ans. (b) : Given that,

Kg m2s-2

Dimensional formula of given unit is = $[ML^2T^{-3}A^{-2}]$

Resistance = $\frac{\text{Voltage}}{\text{Current}}$

$$= \frac{[M^{1}L^{2}T^{-3}A^{-1}]}{[A]}$$
$$= [M^{1}L^{2}T^{-3}A^{-2}]$$

So, the dimensional formula of given unit is equal to the resistance.

Dioptre is the unit of

- (a) Power of lens
- (b) focal length
- (c) lonosphere
- (d) None
- HP CET-2018

Ans. (a): Dioptre is the unit of power of lens and it is reciprocal of focal length.

$$P = \frac{1}{f}$$
 (where f in meters)

Which of the following is not the unit of surface tension?

Ans. (d): The surface tension is a measure of force per unit length.

S.I unit = N/m

kg/s² or J/m²

Only option (d) W is not the unit of surface tension.

The unit of Polarizability of the molecule is a

- (a) $C^2m^1N^{-1}$ (b) $C^{-2}m^{-1}N^1$ (c) $C^2m^1N^{-1}$ (d) $C^2m^{-1}N^{-1}$