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# Physics class 12 isc notes

Isc class 12 physics chapter 1 notes.

The Physics exam of Class ISC 12 is considered one of the vital documents in the exam. Students who want competitive exams like JEE and NEET and pursue a career in engineering or medicine must study this difficult topic to excel in the exam. The ISC Board is known for its comprehensive program and well-structured curriculum. Students who will appear in the ISC on-board exam must know the Syllabus ICSE for Class 12 Physics thoroughly to score well in the exam. Download More Reduced ISC Class 12 Physics Syllabus 2020-21 PDF The ISC Class 12 Physics Syllabus is provided here in detail to help students prepare in an organized and effective way. But before you get into the program, take a look at the paper template. ISC Class 12 Physics card template The ISC Class 12 Physics card is divided into two parts, as mentioned below. Book Theory: It consists of 70 marks. Students are given 3 hours of time duration to complete the card. Practices: Practices are conducted in 3 hours duration. Includes practical work à 15 Marks Project work à 10 Marks practical file à 10 Trademarks For the detailed marking scheme, please visit the ISC Class 12 Marking Schemes page at CoolGyan. ISC Class 12 Physics Syllabus (theoretical paper) 1. Electrostatics (i) Electrical charges and fields Electrical costs; charge conservation and quantization, Coulomb's law; principle of superposition 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 uniform electric field. Electric flux, Gauss's theorem in Electrostatics and its applications to find field due to infinitely long straight wire, infinite plane sheet uniformly charged and spherical shell uniformly charged thin. (ii) Electrostatic Potential, Energy Potential and Capacity Potential Electrical Potential, difference potential, electric potential due to a point charge, a dipole and a system of charges; equipped surfaces, electric potential of a system of two point charges and electric dipole in an electrostatic field. Conductors and insulators, free charges and taxes tied within a conductor. Dielectric and electric polarization, capacitors and capacities, combination of capacitors in series and parallel. Capacity of a parallel plate capacitor, energy stored in a capacitor. 2. Electric current mechanism of current flow in conductors. Mobility, velocity of drift and its relationship with electric current; Ohm's law and its test, resistance and resistance and their relationship with velocity of drift of electrons; V-I characteristics (linear and non-linear), electricity and power, electrical resistance and conductivity, carbon, color code for carbon resistance; series and parallel combinations of resistors; thermal dependence on resistance and resistance. Internal resistance of a cell, potential difference and emf of a cell, cell, of cells in series and in parallel, Kirchhoff laws and simple applications, Wheatstone bridge, metro bridge. Principle of potentiometer and its applications to measure the potential difference, to compare the emf of two cells; to measure the internal resistance of a cell. 3. Magnetic effects of current and magnetism (i) Mobile charges and magnetism Magnetic field concept, Oersted experiment. Biot «The Savart law and its application. Ampere circuit law and its applications with straight threads of infinite length, straight solenoids and toroidal (only qualitative treatment). Force on a mobile charge in uniform magnetic and electrical fields, cyclotron. Force on a current conductor in a uniform magnetic field, strength between two parallels (ii) Magnetism and matter A current ring as a magnetic dipole, its magnetic dipole moment, magnetic dipole moment of a rotating electron, magnetic field intensity due to a magnetic field ( magnet bar) on the axial line and the equatorial line, torque on a magnetic bar magnetic bar as equivalent solenoid, magnetic field lines; diamagnetic, paramagnetic and ferromagnetic substances, with examples. Electromagnets and factors that influence their strength, permanent magnets. 4. Electromagnetic induction and alternating currents (i) Electromagnetic induction laws of Faraday, induced emf and current; Law of Lenz, parasite currents. Self-induction and mutual induction. Transformer. (ii) Alternated current peak value, average value and RMS value of alternating current/tension; their relationship in the sinusoidal case; reactance and impedance; LC oscillations (only qualitative treatment), LCR series circuit, resonance; power in AC circuits, current without watts. AC generator. 5. Electromagnetic waves The basic idea of the shift current. The electromagnetic waves, their characteristics, their transversal nature (only qualitative ideas), Complete electromagnetic spectrum from radio waves to gamma rays; elementary facts of electromagnetic waves and their uses. 6. Optical (i) Optical with rays and optical instruments Optical with rays: Reflection of light from spherical mirrors, specular formula, light refraction on flat surfaces, total internal reflection and its applications, optical fibers, refraction on spherical surfaces, lenses, lens manufacturer formula, magnification, power of a lens, combination of thin contact lenses, combination of a lens and a mirror, refraction and light dispersion through a prism. Dissemination of light. Optical instruments: Astronomical microscopes and telescopes (reflecting and refracting) and their magnifying powers and resolution powers. (ii) Wave optic wave front and Huygen principle. Demonstration of the laws of reflection and refraction according to the principle of interference, Young « Double slot experiment for fringe width ( $\Delta z$ ), consistent sources and prolonged light interference, funhofer diffraction due to a single slot, crack, maximum; polarization, polarized light on the plane, Brewster law, polarized light uses on the plane and polaroids. 7. Dual Nature of Radiation and Matter duality of wave particles; photoelectric effect, observations of Hertz and Lenard; Einstein's photoelectric equation - particle nature of light. Waves of matter - undulating nature of particles, de-Broglie relationship; conclusion from Davisson-Germer experiment. 8. Atoms and Nuclees (i) Alpha-particle Atoms scattering experiment; atomic model of Rutherford; Bohr atomic model, energy levels, hydrogen spectrum. (ii) Nuclei Composition and nucleus size, Radioactivity, alpha, beta and particles/range range and their properties; right of radioactive decay. Mass-energy ratio, mass defect; binding energy for nucleons and its variation with mass number; nuclear reactions, nuclear fission and nuclear fusion. 9. Electronic devices (i) Electronic semiconductor: Materials, Devices and Simple Circuits. Energy bands in conductors, semiconductors and insulators (only qualifying ideas). Intrinsic and extrinsic semiconductors. (ii) Diode semiconductor: I-V characteristics in bias forward and reverse, diode as a rectifier; Turn off the types of joint diodes: LED, photodiode, solar cell. Stay tuned with CoolGyan to get the latest news and ICSE exam notification, along with the syllabus exam program, calendar and more. Grade 11 and 12 fall into the CSI council, governed by the CSI. The ISC Council Science course has subjects such as mathematics, physics, chemistry, biology and English as mandatory subjects. A student can mark excellent signs in class 12 ISC exam only if the student is in-depth with the topics in the class 11 program. Different study materials for class 11 Physics is prepared by CoolGyan in such a way that it helps a student dig deep into concepts of physics that are mentioned in the physics program of the ISC class 11. These study materials are also used as a test to assess student performance. This self-assessment will help students discover their flaws and help them overcome these flaws. ISC Class 11 Physics Chapters Physical World and Measurement Gravitation Properties of Movement Bulk Material Heat and Thermodynamics Work, Energy and Power Gas Behavior Perfect Gas and Kinetic Gas Theory Particle System and RigidBody Oscillations and Waves ISC Class 11 Physics Syllabus ISC Class 11 Physics Sample Card ISC Class 11 Physics How to prepare for ISC 11 Physics Exam? Know the exam model and the program. Focus on important topics (refer important questions, sample cards to get an idea). Follow a study calendar. Dedicated Revelation. Practice numerical problems again and again. 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