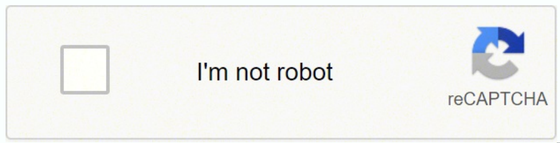

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Calculate the power developed. Find the power dissipated in the bulb and in the leads. ii) Variable resistors – they consist of the rheostat and potentiometer. Solution E = P t hence P = E / t = 3,600 / 60 = 60 W P = V2 / R therefore R = (24 × 24)/ 60 = 9.6 Ω R = ρ l/ A, l = (RA) / ρ = (9.6 × 1 × 10-7) / 1 × 10-6 = 0.96 m Electrical energy and power In summary, electrical power consumed by an electrical appliance is given by; P = V I P = I2 R P = V2 / R The SI unit for power is the watt (W) 1 W = 1 J/s and 1kW = 1,000 W. Aircrafts are fitted with 'pig tails' on the wings to discharge easily. Rectilinear propagation This is the property of the waves travelling in straight lines and perpendicular to the wave front. Cross-sectional area– resistance is inversely proportional to the cross-sectional area of a conductor of the same material. Revision notes in exam days is one of the best tips recommended by teachers during exam days.Download Revision Notes as PDFCBSE Class 12 Physics Revision Notes Chapter-12 Atoms Thomson's Model of an Atom: An atom consists of positively charged matter in which the negatively charged electrons are uniformly embedded like plums in a pudding. Solution V.R = total number of pulleys = 5 Efficiency = (M.A /V.R) × 100 = 60% 0.6 = M.A/ 5 =3, but M.A = Load/Effort Therefore, load = 3 ×200 = 600 N c) Wheel and axle– consists of a large wheel of big radius attached to an axle of smaller radius. Wave energy – wave energy may be produced by vibrating objects or particles i.e. light, sound or tidal waves. The units of heat capacity are J / 0C or J / K. Users can download CBSE guide quick revision notes from myCBSEguide mobile app and my CBSE guide website.Class 12 Physics notes Chapter 12 AtomsDownload CBSE class 12th revision notes for chapter 12 Atoms in PDF format for free. Latent heat of fusion is the heat energy absorbed or given out during fusion. Rollers 2. Ball bearings in vehicles and machines 3. Solution: a) C= Q / V then Q = VC, hence Q = (1.5 × 10-12) × 24 = 3.6 × 10-10 Coul. For appear-shaped conductor the charge is found to be denser in the regions of large curvature (small radius). A mass of 1,200 cm3 of oxygen at 270C and a pressure 1.2 atmosphere is compressed until its volume is 600 cm3 and its pressure is 3.0 atmosphere. Electrolytic capacitors: - used in transistor circuits where large capacitance values are required. Solution a) Frictional force Ff= μFn = μ(mg) = 0.6×30×10 = 180 N b) The resultant force = 200 – 180 = 20 N From F =ma, then 20 = 30 a a = 20 / 30 = 0.67 m/s2 Viscosity This is the internal friction of a fluid. This series lies in the infrared region.d) Brackett Series. Current through 10 Ω = (p.d. between P and R)/ (30 + 10) Ω p.d between P and R = 0.8 × Req. They are used to avoid overloading. Mechanical energy: - there are two types; i. How much more charge can be put on the capacitor using a 24 V supply? How much work is done in stretching this spring by 8.0 cm? A force of 7.5 N stretches a certain spring by 5 cm. What is the Celsius temperature of the gas after compression? It has no units. Hence 8.0 cm = (7.5 ×8)/ 5 = 12.0 N Work done = ½ × force × extension = ½ × 12.0 × 0.08 = 0.48 J 4. A box of mass 500 kg is dragged along a level ground at a speed of 12 m/s. 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The revision notes covers all important formulas and concepts given in the chapter. The p.d across the cell when the circuit is closed is referred to as the terminal voltage of the cell. Examples 1. K.c.s.e Answers Physics Paper One 2018 K.c.s.e Physics 2017 K.c.s.e Physics 2018 K.c.s.e Physics Paper 1 2017 K.c.s.e Mocks 2018 K.c.s.e Papers 2015 K.c.s.e Papers 2016 K.c.s.e Past Papers 2014 K.c.s.e.Physics Paper 2 Year 2018 K.c.s.e.results 2018 for Busia County K.l.b Physics Form 3 K.l.b Physics Notes K.l.b PhysicsNotes Kasneb Past Papers for Colleges Physics Past Papers KCSE 2010 Marking Scheme KCSE 2010 Past Papers KCSE 2011 Physics Paper 1 KCSE 2011 Marking Scheme KCSE 2012 Physics Paper 2 Marking Scheme KCSE 2012 Marking Schemes KCSE 2013 Physics Paper 1 KCSE 2013 Marking Scheme KCSE 2013 Marking Scheme Pdf KCSE 2014 KCSE 2015 Physics Paper 2 KCSE 2015 Physics Paper 3 KCSE 2015 Marking Scheme KCSE 2015 Past Papers KCSE 2016 Physics Paper 1 KCSE 2016 Physics Paper 2 KCSE 2017 Physics Paper 1 KCSE 2017 Physics Paper 2 KCSE 2017 Hostory Papers With Answers.com KCSE 2017 Marking Scheme KCSE 2017 Papers KCSE 2017 Papers and Marking Scheme KCSE 2017 Papers Pdf KCSE 2017 Past Papers 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Solution V = IR = (2 × 10-3) × (2 × 103) = 4 V. If the temperature is held constant, what will be the volume of the gas when the pressure on it is raised to 825 mm of mercury? Chapter Four Energy, Work, Power and Machines Energy This is the ability to do work. These are the Atoms class 12 Notes prepared by team of expert teachers. Here n2 = 2, 3, 4,.....and n1 = 1. Applications of friction 1. Applications of capacitors 1. Different powders emit different colours. The SI units for charge is amperes (A). The change of direction occurs at the boundary between deep and shallow waters and only when the waves hit the boundary at an angle. Excitation Energy: It is defined as the energy required by an electron of an atom to jump from its ground state to any one of its existed state. The law of conservation of energy states that "energy cannot be created or destroyed; it can only be transformed from one form to another". Bohr's Model for the Hydrogen Atom: Basic postulates:-a) Nuclear concept: An atom consists of a small massive centre called nucleus around which planetary electrons revolve. 0.02m3 of a gas is at 27 0C is heated at a constant pressure until the volume is 0.03 m3. It consists of a transparent tray filled with water and a white screen as the bottom. Req = (40 × 60)/ 40 + 60 = 2400/ 100 = 24 Ω p.d across R and P = 0.8 × 24 (V=IR) therefore, current through 10 Ω = 19.2 / 10 + 30 = 0.48 A Electromotive force and internal resistance Electromotive force (e.m.f.) is the p.d across a cell when no current is being drawn from the cell. Solution Since V1 / T1 = V2 / T2, T2 = (300 × 0.03) / 0.02 = 450 K 0r 1770C Boyle's law Boyle's law states that "the pressure of a fixed mass of a gas is inversely proportional to its volume provided the temperature of the gas is kept constant". Work Work is done when a force acts on a body and the body moves in the direction of the force. When two positively charged bodies are placed close to each other, the air around them may cause a spark discharge which is a rush of electrons across the ionized gap, producing heat, light and sound in the process which lasts for a short time. The can be used as a single fixed pulley, or as a block-and-tackle system. If the mass of the liquid is 10 g and its temperature increases by 10 0C in 2 minutes, find the specific heat capacity of the liquid. d is measured using a voltmeter while current is measured using an ammeter. 3. V.R = revolutions of driver wheel / revolutions of driven wheel Or V.R = no.of teeth in the driven wheel/ no. The resistance can be varied by sliding a metal contact to generate desirable resistance. their elements are made up nichrome (alloy of nickel and chromium) which is not oxidized easily when it turns red hot. If the car with its occupants has a mass of 1,250 kg. d) is defined as the work done per unit charge in moving charge from one point to another. Dielectric material between plates: - different materials will produce different capacitance effects. This core is called the nucleus.b) The nucleus occupies a very small space as compared to the size of the atom.c) The atom is surrounded by a suitable number of electros so that their total negative charge is equal to the total positive charge on the nucleus and the atom as a whole is electrically neutral.d) The electrons revolve around the nucleus in various orbits just as planets revolve around the sun.e) The centripetal force required for their revolution is provided by the electrostatic attraction between the electrons and the nucleus. Draw-back of Rutherford Model: This model could not explain instability of the atom because according to classical electromagnetic theory the electron revolving around the nucleus must continuously radiate energy in the form of electromagnetic radiation and hence it should fall into the nucleus. Potential energy – a body possesses potential energy due to its relative position or state ii. Find; a) The quantity of heat supplied by the heater b) The heat capacity of the block c) Its specific heat capacity Solution a) Quantity of heat = power × time = P t = 54 × 500 = 27,000 J b) Heat capacity, C = Q / θ = 27,000 / (50 – 30) = 1,350 J Kg-1 K-1 c) Specific heat capacity, c = C / m = 1,350 / 1.5 = 900 J Kg-1 2. Air cushioning in hovercrafts Example A wooden box of mass 30 kg rests on a rough floor. Factors affecting the resistance of a metallic conductor 1. A person weighing 500 N takes 4 seconds to climb upstairs to a height of 3.0 m. Filament lamp – the filament is made up of tungsten, a metal with high melting point (3.400 0C). Ohm's law states that "the current flowing through a metal conductor is directly proportional to the potential difference across the ends of the wire provided that temperature and other physical conditions remain constant" Mathematically V α I So V /I = constant, this constant of proportionality is called resistance V / I = Resistance (R) Resistance (R) Resistance is measured in ohms and given the symbol Ω Examples 1. Friction is independent of the area of contact. Specific heat capacity. Example A wheel and axle is used to raise a load of 280 N by a force of 40 N applied to the rim of the wheel. Ohm's law This law gives the relationship between the voltage across a conductor and the current flowing through it. If the handleis 28 cm from the screw, find the force applied. and n1= 5. Spectral Series of Hydrogen Atom: Whenever an electron in hydrogen atom makes a transition from a higher energy level n2 to a lower energy level n1, the difference of energy appears in the form of a photon of frequency is given by- Different Spectral Series of Hydrogen Atom:These are as follows:a) Lyman Series. The same glow is observed on the trailing edges of aircrafts. Solution Heat gained = heat lost, V I t = m c θ 15 × 3 × 10 × 60 = 0.5 × c × 65 c = (15 × 3 × 600)/ 0.5 × 65 = 831 J Kg-1 K-1 Fusion and latent heat of fusion Fusion is the change of state from solid to liquid. CBSE, NCERT, JEE Main, NEET-UG, NDA, Exam Papers, Question Bank, NCERT Solutions, Exemplars, Revision Notes, Free Videos, MCQ Tests & more. Solution Neglecting friction M.A = V.R V.R = 2πr /P = M.A = L / E 1,600 / E = (2π× 0.28) / 0.011 E = (1,600 × 0.011 × 7) / 22×2×0.28 =10 N f) Gears: - the wheel in which effort is applied is called the driver while the load wheel is the driven wheel. Diffraction of waves This occurs when waves pass an edge of an obstacle or a narrow gap, they tend to bend around the corner and spread out beyond the obstacle or gap. knec portal confirmation - knec portal kcse results - knec examiners portal - knec website kcse past papers - kcpe and answers - free mocks online - kcse answers past exams question papers - downloads | kcse papers and marking schemes | exams - kcse mathematics paper 1 questions and answers - kcse cre paper 1 questions and answers kcse past papers 2007 kcse past papers 2009 kcse past papers 2010 kcse past papers 2011 kcse past papers 2011 pdf kcse past papers 2012 kcse past papers 2013 kcse past papers 2013 -knec kcse past papers 2014 kcse past papers 2014 pdf kcse past papers 2015 kcse past papers 2015 marking schemes kcse past papers 2015 pdf kcse past papers 2016 kcse past papers 2016 pdf kcse past papers 2017 kcse past papers 2017 pdf kcse past papers agriculture and answers kcse past papers arabic and answers kcse past papers art and design and answers kcse past papers biology kcse past papers building and construction and answers kcse past papers business studies and answers kcse past papers chemistry kcse past papers chemistry and answers kcse past papers chemistry pdf kcse past papers computer studies and answers kcse past papers cre and answers kcse past papers electricity and answers kcse past papers english and answers kcse past papers french and answers kcse past papers general science and answers kcse past papers geography and answers kcse past papers german and answers kcse past papers history and government and answers kcse past papers home science and answers kcse past papers hre and answers kcse past papers ire and answers kcse past papers kenya sign language and answers kcse past papers kiswahili and answers kcse past papers marking scheme kcse past papers maths kcse past papers metal work and answers kcse past papers music and answers kcse past papers pdf download kcse past papers physics and answers kcse past papers physics with answers kcse past papers power mechanics and answers kcse past papers with answers kcse past papers woodwork and answers kcse physics past papers kcse prediction 2017 kcse prediction 2018 kcse prediction 2018 pdf kcse prediction papers 2018 kcse prediction questions 2018 kcse prediction questions and answers kcse questions and answers kcse questions and answers. The insulating material is called 'dielectric'. Solution A force of 7.5 produces an extension of 5.0 cm. Takes place on the surface (no bubbles formed)- takes place throughout the liquid (bubbles formed) 3. 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On top we have a source of light. the inclined plane makes an angle of 300 with the horizontal. If an effort of 20 N is used to raise a load of 60 N, what is the efficiency of the machine? A fixed mass of gas occupies 1.0 × 10-3 m3 at a pressure of 75 cmHg. What volume does the gas occupy at 17.0 0C if its pressure is 72 cm of mercury? If 300 g of paraffin is heated with an immersion heater rated 40 W, what is the temperature after 3 minutes if the initial temperature was 20 0C? 3. calculate the value of e.m.f of the cell and its internal resistance. It is represented by the symbol (L), we use the following formula, Q = m Lf Different substances have different latent heat of fusion. Also Q = m c θ. Solution E = I2 R t = 102 × 30 × 60 = 18 × 104 = 180 kJ 2. Example A capacitor of two parallel plates separated by air has a capacitance of 15pF. Solution Using, V1 / T1 = V2 / T2, then V2 =(20 × 327) / 300 = 21.8 cm3. An arrestor consists of a thick copper strip fixed to the outside wall of a building with sharp spikes. Even if you wish to have an overview of a chapter, quick revision notes are here to do if for you. Motion of motor vehicles 5. 1. Solution Power = work done / time = (force × distance) / time = (500 ×3) / 4 = 375 W 2. This is called a constructive interference and when out of phase they cancel each other out and this is known as destructive interference. Class 12 Physics notes on chapter 12 Atoms are also available for download in CBSE Guide website.CBSE Guide Atoms class 12 Notes PhysicsCBSE guide notes are the comprehensive notes which covers the latest syllabus of CBSE and NCERT. This discharge produces a glow called corona discharge observed at night on masts of ships moving on oceans. 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Calculate; a) The breaking force b) The work done in bringing it to rest Solution a) F = ma and a = v – u/t But 72 km/h = 20m/s a = 0 -20/8 = - 2.5 m/s Retardation = 2.5 m/s Braking force F = 1,250 × 2.5 = 3,125 N b) Work done = kinetic energy lost by the car = ½ mv2 – ½ mu2 = ½ × 1250 × 02 – ½ × 1250 × 202 = - 2.5 × 105 J 5. all marking schemes - questions and answers are sourced from knec. Forms of energy. free kcse past papers with answers free kcse questions and answers on chemistry free revision papers general biology test questions and answers general science questions and answers pdf history and government paper one topics history form one questions and answers pdf history paper 1 questions and answers history paper 2 questions and answers home science past papers igcse computer science book igcse computer science book pdf download igcse computer science notes igcse computer science paper 2 notes igcse computer science past papers igcse computer science past papers 2014 igcse computer science past papers 2017 igcse computer science pdf igcse computer science pre release material 2018 igcse computer science resources igcse computer science revision notes pdf igcse computer science workbook pdf igcse computer studies past papers interesting biology questions ire kcse past papers k.c.s.e cre paper 1 2017 k.c.s.e geography 2017 k.c.s.e mathematics paper 1 2017 k.c.s.e mocks 2018 k.c.s.e past papers 2014 kcpe 2018 predictions kcpe prediction questions kcse 2010 marking scheme kcse 2010 past papers kcse 2011 cre paper 1 kcse 2011 marking scheme kcse 2012 history paper 2 marking scheme kcse 2012 marking schemes kcse 2013 cre paper 1 kcse 2013 marking scheme kcse 2013 marking scheme pdf kcse 2014 kcse 2015 biology paper 2 kcse 2015 biology paper 3 kcse 2015 marking scheme kcse 2015 past papers kcse 2016 agriculture paper 2 kcse 2016 biology paper 1 kcse 2016 biology paper 2 kcse 2016 computer paper 1 kcse 2017 marking scheme kcse 2017 maths paper 1 kcse 2017 papers kcse 2017 papers and marking scheme kcse 2017 past papers kcse 2017 prediction pdf kcse 2018 cre prediction kcse 2018 leakage kcse 2018 marking scheme kcse 2018 papers kcse 2018 predictions kcse 2019 marking scheme kcse agriculture past papers kcse answers kcse arabic paper 1 kcse arabic paper 2 kcse arabic paper 3 kcse arabic paper 3 2016 kcse arabic past papers kcse biology 2011 kcse biology essay questions and answers kcse biology essay questions and answers - 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Distance of Closest Approach: When an alpha-particle of mass m and velocity v moves directly towards a nucleus of atomic number Z, its initial energy E, which is just the kinetic energy K gets completely converted into potential energy U at stopping point. Calculate the specific heat capacity of the metal cylinder. Calculate the work done by a stone mason lifting a stone of mass 15 kg through a height of 2.0 m. The wave fronts represent wave patterns as they move along. Transformation and conservation of energy Any device that facilitates energy transformations is called transducer. It is given by the following formula; ρ = AR /lwhere A – cross-sectional area, R – resistance, l – length Example Given that the resistivity of nichrome is 1.1× 10-6Ωm, what length of nichrome wire of diameter 0.42 mm is needed to make a resistance of 20 Ω? Fluorescent lamps – when the lamp is switched on, the mercury vapour emits ultra violet radiation making the powder in the tube fluoresce i.e. emit light. A gas in a cylinder occupies a volume of 465 ml when at a pressure equivalent to 725 mm of mercury. Pressure + h p g After inversion, gas pressure = atm. Heat capacity Heat capacity is defined as the quantity of heat required to raise the temperature of a given mass of a substance by one degree Celsius or one Kelvin. A gas in a fixed volume container has a pressure of 1.6 × 105 Pa at a temperature of 27 0C. This line of force also called an electric flux line points in the direction of the force. The density of charge is greatest where curvature is greatest. If the efficiency of the inclined plane is 72%, calculate; a) The effort needed to move the load up the inclined plane at a constant velocity. The loss of electrons by molecules (ionization) makes the molecules positively charged ions. The comparison between Kelvin scale and degrees Celsius is given by; θ0 = (273 + θ) K, and T (K) = (T – 273) 0C. At what temperature would the pressure of the gas fall to 10 cm of mercury? At 200C, the pressure of a gas is 50 cm of mercury. Pressure be 'x', So (x + 5) 0.26 = (x – 5) 0.30 0.26x + 1.30 = 0.3x - 1.5, x = 2.8/ 0.04 = 70 cm. Force applied is called the effort while the resisting force overcome is called load. Solution Using, P2 V1 = P2 V2, then V2 = (725 × 465) / 825 = 409 ml. Solution When two identical cells are connected in series, the equivalent e.m.f is equal to that of only one cell. Solution Before inversion, gas pressure = atm. Consider the following diagram; The current flowing through the circuit is given by the equation, Current = e.m.f / total resistance I = E / R + rwhere E – e.m.f of the cell Therefore E = I (R + r) = IR + I r = V + I r Examples 1. They are affected by temperature hence non-linear. What current is flowing in the circuit? of teeth in the driving wheel Example g) Pulley belts: -these are used in bicycles and other industrial machines V.R = radius of the driven pulley / radius of the driving pulley h) Hydraulic machines V.R = R2 / r2 where R- radius of the load piston and r- radius of the effort piston Example The radius of the effort piston of a hydraulic lift is 1.4 cm while that of the load piston is 7.0 cm. Distance between the plates: - reducing separation increases capacitance but the plates should not be very close to avoid ionization which may lead to discharge. Decrease in atmospheric pressure increases the rate –decreases as atmospheric pressure lowers Applications of cooling by evaporation a) Sweating b) Cooling of water in a porous pot c) The refrigerator Chapter Ten The Gas Laws Pressure law This law states that "the pressure of a fixed mass of a gas is directly proportional to the absolute temperature if the volume is kept constant". Calculate the new volume of the gas if it is heated to 540C at the same pressure. (take g= 10 N/kg) Solution a) V.R = 1 / sin C = 1/ sin 300 = 2 M.A = efficiency × V.R = (72/100)× 2 = 1.44 Effort = load (mg) / effort (50×10)/ 1.44 = 347.2 N b) Work done against friction = work input – work output Work output = mgh = 50×10×4 = 2,000 J Work input = effort × distance moved by effort 347.2 × (4× sin 300) = 2,777.6 J Therefore work done against friction = 2,777.6 – 2,000 = 777.6 J e) The screw: - the distance between two successive threads is called the pitch V.R of screw = circumference of screw head / pitch P = 2πr / P Example A car weighing 1,600 kg is lifted with a jack-screw of 11 mm pitch. Solution Power = F v = 2,000 × 12 = 24,000 W = 24 kW. This extends the life of the filament. Factors affecting the melting point a) Pressure b) Dissolved substances Specific latent heat of vaporization is the quantity of heat required to change completely 1 kg of a liquid at its normal boiling point to vapour without changing its temperature. The following diagrams represent rectilinear propagation of water waves. A small electric motor (vibrator) is connected to cause the disturbance which produces waves. A battery consists of two identical cells, each of e.m.f 1.5 v and internal resistance of 0.6 Ω, connected in parallel. An electric light bulb has a filament of resistance 470 Ω. When the tube is inverted, the air column becomes 30 cm long. what is the average power in climbing up the height? Calculate the current the battery drives through a 0.7 Ω resistor. The units for capacitance are coulombs per volt (Coul /volt) and are called farads. If each step is 30 cm high, calculate the work done by the girl climbing the stairs. Takes place at all temperature - takes place at a specific temperature 2. It is measured in volts. Calculate the length of the wire making the coil given that its cross-sectional area is 1 × 10-7 m2 and resistivity 1 × 10-6 Ω m. A heating coil providing 3,600 J/min is required when the p.d across it is 24 V. A machine; the load moves 2 m when the effort moves 8 m. Electric current is the rate of flow of charge. Physics Form Three Study Notes Physics Form Three Work Physics Form Three-questions and Answers Physics Form Two Physics Form Two Book Physics Form Two Diagrams Physics Form Two Notes Physics Form Two Notes and Questions Physics Form Two Notes GCSE Physics Form Two Notes Pdf Physics Form Two Notes-pdf Physics Form Two Pdf Physics Form Two Questions Physics Form Two Questions and Answers Physics Form Two Questions and Answers Pdf Physics Form Two Quiz Physics Form Two Study Notes Physics Form Two Topics Physics Form Two Work Physics Form Two,schemes of Work Physics Form2 Physics Form2 Textbook Physics Game Form Four Question End Answers Physics Grade 10 Exam Papers Physics Hsc Pdf Physics Human Reproduction Video Physics IGCSE Past Papers Xtremepapers Physics K.c.s.e 2017 Physics KCSE Physics KCSE 2016 Physics KCSE 2017 Physics KCSE 2017 Paper 1 Physics KCSE Past Papers Physics KCSE Questions Physics KCSE Questions and Answer Physics KCSE Quizzes & Answers Physics KCSE Revision Physics 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Solution Since P1 V1 / T1 = P2 V2 / T2, then T2 = (3 × 600 × 300) / 1.2 × 1,200 = 375 K or 102 0C. When a body is released in a viscous fluid it accelerates at first then soon attains a steady velocity called terminal velocity. Friction is always parallel to the contact surface and in the opposite direction to the force tending to produce or producing motion. For an isolated sphere it is found that the effect is the same for all points on the surface meaning that the charge is evenly distributed on all points on the spherical surface. Mathematically expressed as, P1 V1 = P2 V2 Examples 1. Temperature – resistance increases with increase in temperature 2. Three quantities dealing with machines are;- a) Mechanical advantage (M.A.) - this is defined as the ratio of the load (L) to the effort (E). Charging and discharging a capacitor When the switch S1 is closed the capacitor charges through resistor R and discharges through the same resistor when switch S2 is closed. This stopping point happens to be at a distance of closest approach d from the nucleus.Hence, a) It is defined as the perpendicular distance of the velocity of the alpha-particle from the centre of the nucleus, when it is far away from the atom.b) The shape of the trajectory of the scattered alpha-particle depends on the impact parameter b and the nature of the potential field.c) Rutherford deduced the following relationship between the impact parameter b and the scattering angle :- Quantisation or Discretisation: The quantization or discretisation of a physical quantity means that it cannot have any arbitrary value but can change only to take certain specific value. They are symbolized as shown below, Capacitance C = Q / V where Q- charge and V – voltage. Pressure - h p g From Boyle's law, P1 V1 = P2 V2, then let the atm. Solution P / T = constant, P1 / T1 = P2 / T2, therefore T2= (293 × 10) / 50 = 58.6 K or (– 214.4 0C) Charles law Charles law states that "the volume of a fixed mass of a gas is directly proportional to its absolute temperature (Kelvin) provided the pressure is kept constant". What is the value of atmospheric pressure? Factors affecting electrical heating Energy dissipated by current or work done as current flows depends on, a) Current b) Resistance c) Time This formula summarizes these factors as, E = I2 R t, E = I V t or E = V2 t / R Examples 1. This series lies in the infrared region. This series lies in the infrared region.e) Pfund Series. Sliding (kinetic) friction is less than static friction (friction before the body starts to slide). As Level Physics Notes Atika Physics Notes Atika School Physics Notes B/s Book 2 Notes Basic Physics Books Pdf basic Physics Interview Questions and Answers Pdf Basic Physics Interview Questions and Answers Pdf Basic Physics Pdf Basic Physics Questions and Answers Basic Physics Questions and Answers Pdf Bbc Bitesize Physics Ks3 Bihar Board Physics Objective Answer 2017 Bihar Board Physics Objective Answer 2018 Bio Answers Bio Quesions Physics 0478 Physics 101 Physics 12th Physics 12th Class Notes Pdf Physics 2019 Syllabus Physics All KCSE Short Notes Physics Answers Physics Answers Online Free Physics Answers Quizlet Physics Bk 2 Notes Physics Book 1 Physics Book 1 Notes Physics Book 2 Physics Book 2 Notes Physics Book 3 Physics Book 3 KLB Physics Book 3 Notes Physics Book 4 Physics Book 4 Notes Physics Book 4 Pdf Physics Book for Class 11 Physics Book Four Physics Book Four Notes Physics Book One Physics Book One Notes Physics Book Pdf Free Download Physics Book Three Physics Book 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Chapter 4 Physics Form 4 Chapter 4 Notes Pdf Physics Form 4 Chapter 5 Light Questions and Answers Physics Form 4 Chapter 5 Notes Pdf Physics Form 4 Diagrams Physics Form 4 Exam Paper 1 Physics Form 4 Exams Physics Form 4 Exercise Physics Form 4 Exercise Pdf Physics Form 4 Module With Answer Physics Form 4 Note Physics Form 4 Notes Physics Form 4 Notes (Pdf) Physics Form 4 Notes All Chapter Pdf Physics Form 4 Notes and Questions Physics Form 4 Notes Chapter 1 Physics Form 4 Notes Chapter 2 Physics Form 4 Notes Chapter 3 Physics Form 4 Notes Download Physics Form 4 Notes Free Download Physics Form 4 Notes GCSE Physics Form 4 Notes KCSE-kcse Physics Form 4 Notes Pdf Physics Form 4 Notes Pdf Download Physics Form 4 Paper 2 Questions and Answers Physics Form 4 Past Papers Physics Form 4 Question Papers Physics Form 4 Questions Physics Form 4 Questions and Answers Physics Form 4 Questions and Answers Pdf Physics Form 4 Quiz Physics Form 4 Revision Notes Physics Form 4 Schemes of Work Physics 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Ionisation Potential: It is the accelerating potential which gives to bombarding electron, sufficient energy to ionise the target atom by knocking one of its electrons completely out of the atom. Charges on or action at sharp points A moving mass of air forms a body with sharp points. Paper capacitors: - used in mains supply and high voltage installations. It is enclosed in aglass bulb with air removed and argon or nitrogen injected to avoid oxidation. It is denoted by 'c', hence, c = Q / m θ where Q – quantity of heat, m – mass andθ – change in temperature. Solution Let the internal resistance be 'r' and e.m.f be 'E'. Chapter Nine Quantity of Heat Heat is a form of energy that flows from one body to another due to temperature differences between them. Find the quantity of heat given out. myCBSEguide provides sample papers with solution, test papers for chapter-wise practice, NCERT solutions, NCERT Exemplar solutions, quick revision notes for ready reference, CBSE guess papers and CBSE important question papers. The units for 'c' are J kg-1 K-1. The volume of air 26 cm long is trapped by a mercury thread 5 cm long as shown below. Charge distribution on conductors' surface A proof plane is used to determine charge distribution on spherical or pear-shaped conductors. 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Install NowCBSE Chapter 12 Atoms Class 12 Notes Physics in PDF are available for free download in myCBSEguide mobile app. If the force of friction between the box and floor is 1200 N. Solution Efficiency = (M.A / V.R) × 100 M.A = load/effort =60/20 = 3 V.R =DE/ DL = 8/2 = 4 Efficiency = ¾ × 100 = 75% Some simple machines a) Levers – this is a simple machine whose operation relies on the principle of moments b) Pulleys – this is a wheel with a grooved rim used for lifting heavy loads to high levels. M.A = load (L) / effort (E) b) Velocity ratio – this is the ratio of the distance moved by the effort to the distance moved by the load V.R = distance moved by effort/ distance moved by the load c) Efficiency – is obtained by dividing the work output by the work input and the getting percentage Efficiency = (work output/work input) × 100 = (M.A / V.R) × 100 = (work done on load / work done on effort) × 100 Examples 1. Viscosity of a liquid decreases as temperature increases. A block of metal of mass 1.5 kg which is suitably insulated is heated from 30 0C to 50 0C in 8 minutes and 20 seconds by an electric heater coil rated 54 watts. 4. Non-ohmic conductors do not obey Ohms law i.e. bulb filament (tungsten), thermistor couple, semi-conductor diode etc. CBSE quick revision note for class-12 Physics, Chemistry, Math's, Biology and other subject are very helpful to revise the whole syllabus during exam days. A rope tied at one end will still produce stationary waves. Calculate the heat in kJ developed in 1 minute. Electrical energy – this is energy formed by conversion of other forms of energy i.e. generators. Solution ρ = AR /l, hence l = RA/ ρ = 20 × 3.142 × (2.1×10-4) / 1.1 × 10-6 = 2.52 m Resistors Resistors are used to regulate or control the magnitude of current and voltage in a circuit according to Ohms law. This occurs when an obstacle is placed in the path of the waves. De Broglie's Hypothesis: The electrons having a wavelength gave an explanation for Bohr's quantised orbits by bringing in the wave-particle duality. Here n2= 5, 6, 7,.....and n1 = 4. Solution Work = ½ ks2 = ½ × 100 × 0.22 = 2 J Power Poweris the time rate of doing work or the rate of energy conversion. Types of resistors i) Fixed resistors – they are wire-wound or carbon resistors and are designed togive a fixed resistance. Determination of specific heat capacity: A calorimeter is used to determine the specific heat capacity of a substance. It is difficult to perform experiments involving friction and thus the following statements should therefore be taken merely as approximate descriptions: 1. Hence Req = R1 R2 / R1 + R2 = (0.6 × 0.6) / 0.6 + 0.6 = 0.36 / 1.2 = 0.3 Ω Equivalent e.m.f =1.5 / (0.7 + 0.3) = 1.5 A Hence current flowing through 0.7 Ω resistor is 1.5 A Chapter Six Waves II Properties of waves Waves exhibit various properties which can be conveniently demonstrated using the ripple tank. Ammeters and voltmeters In a circuit an ammeter is always connected in series with the battery while a voltmeter is always connected parallel to the device whose voltage is being measured. Kinetic energy – energy possessed by a body due to its motion i.e. wind, water iii. Solution Heat delivered (P t) = 50 × 2 × 60 = 2,400 J Heat gained = 0.1 × c × 10 J Therefore 'c' = 2,400 / 0.1 × 10 = 2,400 J Kg-1 K-1 2. These non-radiating orbits are called stationary orbits.d) Frequency condition: An atom can emit or absorb radiation in the form of discrete energy photons only when an electron jumps from a higher to a lower orbit or from a lower to a higher orbit. Chapter Seven Electrostatics II Electric fields An electric field is the space around a charged body where another charged body would be acted on by a force. It includes all the topics given in NCERT class 12 Physics textbook. Examples 1. Solution Heat given out by the heater = P t = 600 × 6 × 60 Heat absorbed by steam = 0.10 × L v Heat gained = heat lost, therefore, 600 × 6 × 60 = 0.10 × L v = 2.16 × 106 J / Kg Evaporation Factors affecting the rate of evaporation a) Temperature b) Surface area c) Draught (hot and dry surrounding) d) Humidity Comparison between boiling and evaporation Evaporation Boiling 1. It consists of two or more plates separated by either a vacuum or air. P t = 40 × 180 = 7,200 J m = 0.30 kg c = 2,200, θ = ..? A girl of mass 50 kg walks up a flight of 12 steps. Electric field patterns Just like in magnetic fields, the closeness of the electric field-lines of force is the measure of the field strength. Friction depends on the nature of the surfaces and materials in contact with each other. A piece of copper of mass 60 g and specific heat capacity 390 J Kg-1 K-1 cools from 90 0C to 40 0C. Solution I = V/R = 5 / 20 = 0.25 A Ohmic and non-ohmic conductors Ohmic conductors are those that obey Ohms law(V α I) and a good example is nichrome wire i.e. the nichrome wire is not affected by temperature. It is symbolized by ρ and the units are ohmmeter (Ωm). When the two speakers are placed facing each other they produce standing waves. Download revision notes for Atoms class 12 Notes and score high in exams. Interference of waves This occurs when two waves merge and the result can be a much larger wave, smaller wave or no wave at all. 5. The best app for CBSE students now provides Atoms class 12 Notes Physics latest chapter wise notes for quick preparation of CBSE board exams and school-based annual examinations. A general gas law Any two of the three gas laws can be used derive a general gas law as follows, P1 V1 / T1 = P2 V2 / T2 or P V / T = constant – equation of state for an ideal gas. b) Mica C = 250pF, Q = (250 × 10-12) × 24 = 6 × 10-9 Coul. Change of state from liquid to solid is called solidification. Walking Methods of reducing friction 1. Length of the conductor– increase in length increases resistance 3. Power (P) = work done / time P = W / t The SI unit for power is the watt (W) or joules per second (J/s). Example A block and tackle system has 3 pulleys in the upper fixed block and two in the lower moveable block. A potential difference of 24 volts is applied across the plates, a) Determine the charge on the capacitors. These notes will certainly save your time during stressful exam days.To download Atoms class 12 Notes, sample paper for class 12 Physics, Chemistry, Biology, History, Political Science, Economics, Geography, Computer Science, Home Science, Accountancy, Business Studies and Home Science; do check myCBSEguide app or website. 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Calculate the voltage across the conductor. Here n2= 3, 4, 5,.... When the waves are in phase they add up and reinforce each other. Energy can be transformed from one form to another i.e. mechanical – electrical – heat energy. Lubrication / oiling 4. and n1 = 2. This series lies in the visible region.c) Paschen Series. power transmission. Internal resistance of a cell is therefore the resistance of flow of current that they generate. The two speakers are separated by a distance of the order of wavelengths i.e. 0.5 m apart for sound frequency of 1,000 Hz. If you walk along line AB about 2m away from the speakers, the intensity of sound rises and falls alternately hence both destructive and constructive interference will be experienced. The revision notes help you revise the whole chapter 12 in minutes. calculate the work done by the spring. Capacitors and capacitance A capacitor is a device used for storing charge. It is denoted by 'C'. 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P. given that the machine is 80% efficient, calculate; a) The effort needed b) The energy wasted using the machine Solution a) V.R = R2 / r2 = (7×7) / 1.4 × 1.4 = 25 Efficiency = M.A / V.R × (80 /100) × 25 = 20 But M.A = Load / Effort = (120×10) / 20 = 60 N b) Efficiency = work output / work input = work done on load (m g h) /80 = (120 × 10× 2.5) / 80 × work input 80 / 100 = 3,000 / work input Work input = (3,000 × 100) /80 = 3,750 J Energy wasted = work input – work output = 3,750 – 3,000 = 750 J Chapter Five Current Electricity Electric potential difference and electric current Electric current Electric potential difference (p. download free kcse past papers from knec. Here n2= 6, 7, 8,.... This model could not explain scattering of alpha-particles through thin foils and hence discarded. Machines makes work easier or convenient to be done. The equivalent internal resistance is equal to that of two such resistance connected in parallel. 6. If the voltmeter reads 15V, the ammeter 0.3A and the temperatures of the block rises from 20 0C to 85 0C in ten minutes. After the water starts to boil, the heater is left on for 6 minutes. These fields are represented by lines of force. Resistivity of a material is numerically equal to the resistance of a material of unit length and unit cross-sectional area. Sample Paper all are made available through the best app for CBSE students and myCBSEguide website. Interference in sound Two loud speakers L1 and L2 are connected to the same signal generator so that sound waves from each of them are in phase. An iron box has a resistance coil of 30 Ω and takes a current of 10 A. Lightning may not be prevented but protection from its destruction may be done through arrestors. Capacitor combination Chapter Eight Heating Effect of an Electric Current When current flows, electrical energy is transformed into other forms of energy i.e. light, mechanical and chemical changes. The lightning arrestors Lightning is a huge discharge where a large amount of charge rushes to meet the opposite charge. Machines A machine is any device that uses a force applied at one point to overcome a force at another point. Solution Since law applies for Kelvin scale, convert the temperature to kelvin T1 = 270C = (273 + 27) K = 300 K T2 = 2270C = (273 + 277) = 550 K P1 / T1 = P2 / T2, therefore P2 = (1.6 × 105) × 550 / 300 = 2.93 × 105 Pa. 2. What is the maximum number of 100 W bulbs which can be safely run from a 240 V source supplying a current of 5 A? A wire of resistance 20Ω is connected across a battery of 5 V. A cell drives a current of 0.6 A through a resistance of 2 Ω. Mathematically expressed as follows, V1 / T1 = V2 / T2 Examples 1. The coefficient of friction between the floor and the box is 0.6. Calculate a) The force required to just move the box b) If a force of 200 N is applied the box with what acceleration will it move? Ionisation Energy: It is defined as the energy required to remove an electron from an atom, i.e., the energy required to take an electron from its ground state to the outermost orbit (n =) Excitation Potential: It is the accelerating potential which gives sufficient energy to a bombarding electron, so to excite the target atom by raising one of its electrons from an inner to and outer orbit. Brakes 4. Rutherford's Model of an Atom: Geiger and Marsden in their experiment on scattering of alpha-particles found that most of the alpha-particles passed undeviated through thin foils but some of them were scattered through very large angles.From the results of these experiments, Rutherford proposed the following model of an atom:-a) An atom consists of a small and massive central core in which the entire positive charge and almost the whole mass of the atom are concentrated. Friction is proportional to the force pressing the two surfaces together. Estimate the specific heat of vaporization of steam. These ions tend to move in different directions and collide producing more charged particles and this makes the air highly ionized. A spring constant k = 100 Nm is stretched to a distance of 20 cm. This series lies in the ultraviolet region.b) Balmer Series. Resistor combination a) Series combination Consider the following loop Combining those in series then this can be replaced by two resistors of 60 Ω and 40 Ω. Using E = V + I r = IR + I r Substitute for the two sets of values for I and R E = 0.6 × (2 + 0.6 r) = 1.2 + 0.36 r E = 0.6 × (7 × 0.2 r) = 1.4 + 0.12 r Solving the two simultaneously, we have, E = 1.5 v and R = 0.5 Ω 2. Solution Req = 470 + 10 = 480 Ω, therefore I = 240 / 480 = 0.5 A. Hence Q = m Lv The SI unit for specific latent heat of vaporization is J / Kg. Example An immersion heater rated 600 W is placed in water. Specific latent heat of fusion of a substance is the quantity of heat energy required to change completely 1 kg of a substance at its melting point into liquid without change in temperature. This machine is used to raise a load of 120 kg at a constant velocity through a height of 2.5 cm. A 50 W heating coil is immersed in a liquid contained in an insulated flask of negligible heat capacity. Other capacitors are used in reducing sparking as a car is ignited, smoothing rectified current and increasing efficiency in a. This glow in aircrafts and ships is called St. Elmo's fire. Then 240 × 5 = 100 n So 'n' = (240 × 5)/ 100 = 12 bulbs. What will be the pressure of the gas if the container is heated to a temperature of 2770C? Hence power dissipated = I2 R = (0.5)2 × 470 = 117.5 W (bulb alone) For the leads alone, R = 10 Ω and I = 0.5 A Therefore power dissipated = (0.5)2 × 10 = 2.5 W. Stationary waves They are also known as standing waves and are formed when two equal progressive waves travelling in opposite direction are superposed on each other. Work done = force × distance moved by object W = F × d Work is measured in Nm. 1 Nm = 1 Joule (J) Examples 1. S.H.C of a substance is the quantity of heat required to raise the temperature of 1 kg of a substance by 1 0C or 1 K. Here n2= 4, 5, 6,.....and n1 = 3. Solution M.A = 280 / 40 = 7 V.R = R/r = 70/5 = 14 Efficiency = (M.A/ V.R) × 100 = 7/14 × 100 = 50 % d) Inclined plane: V.R = 1/ sin θ M.A = Load/ Effort Example A man uses an inclined plane to lift a 50 kg load through a vertical height of 4.0 m. Their direction is always from the north or positive to the south or negative. A car travelling at a speed of 72 km/h is uniformly retarded by an applicationof brakes and comes to rest after 8 seconds. Solution Energy = P t = m c θ = Q = quantity of heat. 1 Coul/ volt = 1 farad (F) 1 μF = 10-6 F and 1pF = 10-12 Types of capacitors are; a) Paper capacitors b) Electrolyte capacitors c) Variable capacitors d) Plastic capacitors e) Ceramic capacitors f) Mica capacitors Factors affecting the capacitance of a parallel-plate capacitor 1. Fuse – this is a short length of wire of a material with low melting point (often thinned copper) which melts when current through it exceeds a certain value. A gas has a volume of 20 cm3 at 270C and normal atmospheric pressure. It is found that the mass of the water had reduced by 0.10 kg in that time. Heat capacity, C = heat absorbed, Q / temperature change θ. Electrical heating – electrical fires, cookers e.tc. Area of plate: - reduction of the effective area leads to reduction in capacitance. if the value of resistance is increased to 7 Ω the current becomes 0.2 A. A metal cylinder mass 0.5 kg is heated electrically. KCSE Questions on Physics KCSE Results, Online Registration, KCSE Result Slip. Examples 1. Solution Let the maximum number of bulbs be 'n'. b) When the space is filled with mica, the capacitance increases to 250pF. Ionization at sharp projections of isolated charged bodies may sometimes be sufficient to cause a discharge. The centripetal force required for their rotation is provided by the electrostatic attraction between the electrons and the nucleus.b) Quantum condition: Of all the possible circular orbits allowed by the classical theory, the electrons are permitted to circulate only in such orbits in which the angular momentum of an electron is an integral multiple of , h being Planck's constant.where n is called principal quantum number.c) Stationary orbits: While revolving in the permissible orbits, an electron does not radiate energy. Energy Level Diagram: It is a diagram in which the energies of the different stationary states of an atom are represented by parallel horizontal lines, drawn according to some suitable energy scale. The leads connecting the bulb to the 240 V mains have a total resistance of 10 Ω. Calculate the M.A, V.Rand efficiency. Terminal velocity is attained when F + U = mg where F is viscous force, U is upthrust and mg is weight. Solution Work done = force × distance = (50× 10) × (12 ×30) ÷ 100 = 500 × 3.6 = 1,800 J 3. Q = m c θ, θ = Q / m c = 7,200 / (0.3 × 2,200) = 10.9 0C 3. If E1 and E2 are the energies associated with these permitted orbits then the frequency of the emitted/absorbed radiation is,e) Radius of the orbit of an electron in hydrogen atom is, f) Kinetic energy K & electrostatic potential energy U of the electron in hydrogen atom:-g) Total energy E of the electron in hydrogen atom:-h) Speed of an electron in the nth orbit is,Where is fine structure constant.i) Energy of an electron in nth orbit is,a) This model is applicable only to hydrogen-like atoms and fails in case of higher atoms.b) It could not explain the fine structure of the spectral lines in the spectrum of hydrogen atom. It can occur between clouds or the cloud and the earth. This uses the principle of heat gained by a substance is equal to the heat lost by another substance in contact with each other until equilibrium is achieved. Refraction This is the change of direction of waves at a boundary when they move from one medium to another. Solution P V / T = constant so V1 = (76 × 1.0 × 10-3 × 290) / 273 ×72 = 1.12 × 10-3 m3 2. b) The work done against friction in raising the load through the height of 4.0 m. The orbits correspond to circular standing waves in which the circumference of the orbit equals a whole number of wavelengths.a) Maser stands for 'Microwave Amplification by Stimulated Emission of Radiation'.b) It is simply a device for producing a highly intense, monochromatic coherent and collimated beam of microwaves.a) It stand for 'Light Amplification by Stimulated Emission of Radiation.b) Itis a device used to produce highly intense strong monochromatic coherent and collimated beam of light.CBSE Class 12 Revision Notes and Key PointsAtoms class 12 Notes. (take g=10N/kg) Solution Work done = force × distance = (15× 10) × 2 = 300 Nm or 300 J 2. Variable capacitor: - used in tuning radios to enable it transmit in different frequencies.

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