**Waves and oscillation mcqs pdf answers class**

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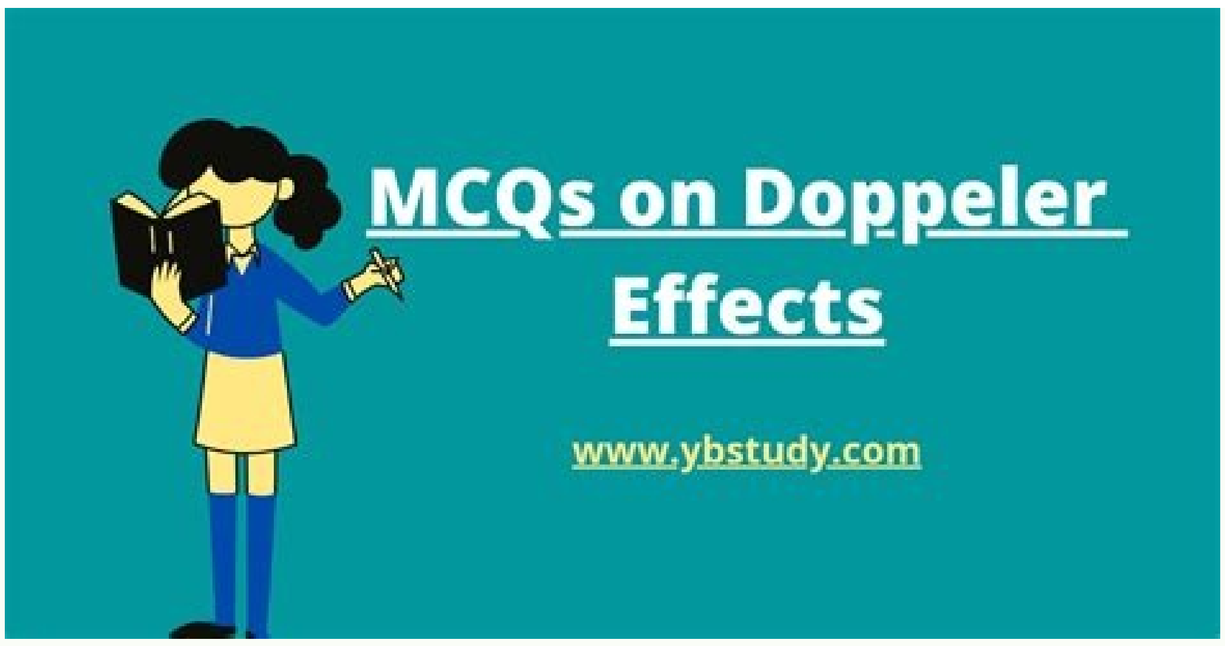

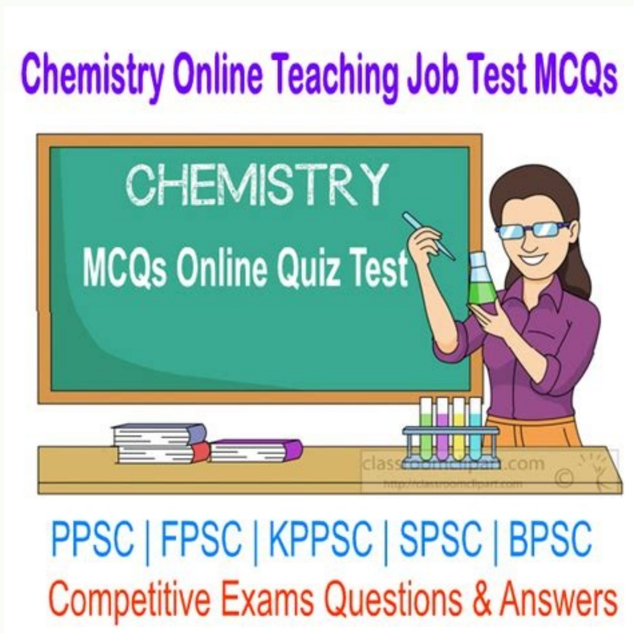


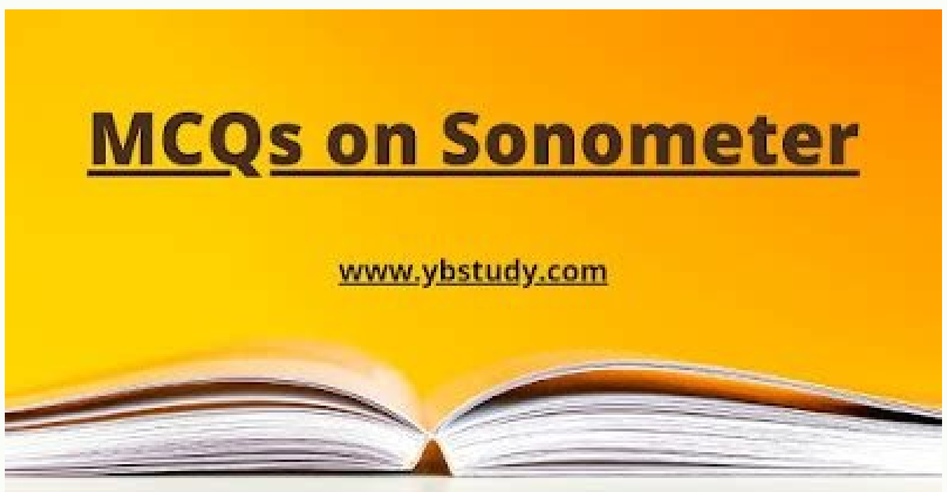


**88.** Which of the following is correct for the capacity of a parallel plate capacitor ? **[BSEB, 2021 (A)]**

(A) $\frac{\epsilon_0 A}{d}$ (B) $\frac{\epsilon_0 d}{A}$ (C) $\frac{d}{\epsilon_0 A}$ (D) $\frac{A}{\epsilon_0 d}$

**Ans.** (A)

**89.** Choose the vector physical quantity :
(A) Electric flux (B) Electric potential
(C) Electric potential energy (D) Electric intensity

**Ans.** (D)

**90.** The surface density of charge is measure : **[BSEB, 2019 (C)]**
(A) $Cm^{-1}$ (B) $Cm^{-2}$
(C) $Cm^{-3}$ (D) $JC^{-1}$ **Ans.** (B)

**91.** What is the number of electrons in 100 g water ?
(A) $3.35 \times 10^{24}$ (B) $3.35 \times 10^{25}$
(C) $6.02 \times 10^{23}$ (D) None of these **Ans.** (A)

**92.** The electric potential of earth is taken as :
(A) zero (B) infinity
(C) unity (D) None of these **Ans.** (A)

**93.** The value of electric potential at a distance $r$ from a point charge $q$ is : **[BSEB, 2021 (A)]**

(A) $\frac{1}{4\pi\epsilon_0}\cdot\frac{q}{r}$ (B) $\frac{1}{4\pi\epsilon_0}\cdot\frac{q}{r^2}$

(C) $\frac{q\cdot r}{4\pi\epsilon_0}$ (D) $\frac{1}{4\pi\epsilon_0}\cdot\frac{q^2}{r}$ **Ans.** (A)

**94.** Electrical capacitance of earth of radius $R$ is : **[BSEB, 2021 (A)]**

(A) $\frac{R}{4\pi\epsilon_0}$ (B) $4\pi\epsilon_0 R$ (C) $\frac{4\pi\epsilon_0}{R}$ (D) $4\pi\epsilon_0\cdot R^2$

**Ans.** (B)

soL :etil©Ãtas ed atibr³Ã al ne orec se g ed rolav lE lanoicida n³Ãicamrofn I . â se atcerroc n³Ãicpo aL â = T euq Ãsa ,0 = g omoC .orec se aten dadevarg al ,arreit al odnatibro ,laicifitra etil©Ãtas nu nE )\}g{}1{carf\ ahpla\ T(\ euq somebas omoC :NÃICANALPXE )2s/m( dadevarg al a odibed n³Ãicareleca = g ,anedac al ed dutignol = L ,ednod )\}g/L{trqs\ip\2 = T(\ :oludn©Ãp led opmeit ed odoÃrep lE .L rop odatoned elpmis oludn©Ãp led dutignol al amall es odidnepsus opreuc led asam ed ortnec le y n³Ãisnepsus ed otnup le ertne lacitrev aicnatsid aL .elpmis oludn©Ãp nu ed aidem n³Ãicisop al se ojif etropos le rop asap euq lacitrev aenÃl aL .elpmis oludn©Ãp nu amall es ojif etropos ed adidnepsus y aregil elbisnetxeni adreuc anu a adinu otnup ed asam anU :elpmis oludn©ÃP :TPECNOC .atinifnI se atcerroc atseupser aL .3 n³Ãicpo al se atcerroc atseupser al euq ÃsA .ralugna aicneucerf al se 'Ï' secnotne ,)Ï + tÏ(soc A = x rop odatneserper ¡Ãtse ocin³Ãmra otneimivom elpmis le iS :NÃICANALPXE .opmeit ed odoÃrep le se T ednod )\}T{}Ï2{carf\=agemo\(\ :rop adad se MHS ed )Ï( ralugna aicneucerF )\}T{}1{carf\=f(\ :rop ad es )f( aicneucerf al y )T( opmeit ed odoÃrep le ertne n³Ãicaler aL .n³Ãicalicso anu ratelpmoc arap odamot opmeit :)T( opmeit ed odoÃreP .odnuges nu ne senoicalicso ed .on :)f( aicneucerf .aidem n³Ãicisop al ed omix¡Ãm otneimazalpsed :)A( MHS ed dutilpma aL .ralugna aicneucerf al se Ï y laicini esaf se Ï ,opmeit se t ,dutilpma se A ,t otnemom reiuqlauc ne aidem n³Ãicisop al ed aicnatsid al se x ednod )Ï + tÏ(nis A = x :rop ad es MHS ed n³Ãicauce aL .oirbiliuqe led otneimazalpsed = x y azreuf = F ednoD x- ±Î F .oirbiliuqe led otneimazalpsed la lanoicroporp etnematcerid se arodaruatser azreuf al odnauc erruco elpmis ocin³Ãmra otneimivom lE :OTPECNOC .koobtseT noc acisÃF arap sovitaraperp sol noc etnaleda osap nu ad y senoicalicsO ed sotpecnoc sol anaG ralugnA aicneucerF : 3 n³ÃicpO esaf ed etnatsnoC ralugnairt aicneucerF dutilpmAotneimazalpseD natives have their own own Due to gravity. The artificial women do not have any natural g. The artificial women experience a gravitational pull towards Earth due to the gravitational force of the Earth. But as the speed of artificial satã © lithies is extremely large, so they have a centrinish force that acts tangentially to the Ó³rbita. As the gravitational attraction of the earth in the artificial satí © lite is equal to the centrinic force that acts on the artificial satí © lite, the net force cancels. The Learning Platform No. of students' prediction. PÃ © ndulo consists of a body of heavy dough (Bob) suspended by a non -existent and perfectly flexible rope of the rigid support on which it is free to range. For a simple pã © ndulo, the oscillation time permit of a pã © ndulo depends on the length of the rope and the acceleration due to gravity. \ ((\ Rectarrow t = 2 \; {\ rm {\ pi}} \ sqrt {\ fraud Lida for small angular displacements. Where, t = oscillation time permit, l = length of the ndulum and g = gravitational acceleration the force that acts that acts to bring a body to its average position/balance position is called the strength of Restoration. Restoration of force because it always applies a force of A, to the equilibrium point. Explanation: for a simple pã © ndulo, the oscillation time permit due to gravity. \ ((\ rearrow t = 2 \; {\ rm {\ pi}} \ sqrt {\ fraud The previous equation, it is clear that the permit of ,odom ,odom etse eD .dadevarg al a odibed n³Ãicareleca al a lanoicroporp etnemasrevni e ozarb led dutignol al a lanoicroporp etnematcerid se The length of a pã © nndulo results results in a subsequent increase in the oscillation period given a constant gravitational acceleration. So Opcion 2 is correct. Learning platform #1 of India begins the preparation of the complete exam Daily Live Masterclasses Practice Bank Mock Tests & Amp; You may start downloading for free app confes in 2,89,18,370+ students angular frequency displacement Building Phase 4: phase constant Concept: simple harmonic mocion The restorative force is directly proportional to the displacement and acts in the direction opposed to displacement. Force (f) = - k x Dénde k = Restoration force, x = distance of the equilibrium position, f = force experiences towards the average position example: moción of a pã © nndulo without equal, spring mass system without moisture. Explanation: The simple armor movement is represented by ‡ ‘x = a cos (ï ‰ t + ï †) where a = amplitude, ï ‰ = angular frequency, x = displacement and ï † = constant phase India ' #1 Learning Platform Start Complete Exam Preparation Daily Live Masterclasses Practice Question Bank Mock Tests & GT; You may start to download for free app confer at 2,89,18,370+ students A is maximum and x and v are zerov is maximum and x and a are very half and x is zerox and they are maximum and are maximum and V is zero Opción 2: V is maximum and x and they are zero with wave: it is a disturbance that transfers energy from one place to another. SHM (Simple Archian Moci The general expression of the simple armed equation is given by: x = a without (ï ‰ t) where a is the amplitude of SHM, ï ‰ is the angular frequency and t is the time velocity (v) of a part of a position in any position is (v = \ omega \ sqrt {{a^2} - {x^2} \) The acceleration of the particle in any position is given by: Acceleration (a) = ï 1,000 2â X Explanation: From the above Figure We can see that, in the middle position, the amplitude of S.H.M is zeroâ , i.e. x = a = 0 in average position, whereas in x = a in extreme position "the acceleration of the particle will be minimal in midpoints (x = 0). Maximum acceleration (a) = ï ¢ 2â x = 0 The particle speed will be maximum in the average position (x = 0). \ (maximum \; Velocity \; \ Left (V \ Right) = \ Omega \; \ sqrt {{a^2} - {x^2} \;} = \ omega \; \ sqrt {{{a^2} - {0^2} = \ omega \; a \) Therefore, option 2 is correct. The learning platform number 1 of India begins the complete preparation of exams of India, the live magisterial classes of the bank's simulation tests and questionnaires and free download tests of 2,89,18,370+ students always head to the center, at the point of reference - Square proportionality of distance from the point of reference proporsional to the distance from the point of reference and directed towards the itnone of these options): The harmonic movement is a special type of periodic movement ", where the restoration of force is proportional" and acts in the opposite direction to that of displacement. Example: motion of a pendulum without damping, spring mass system without damping. Force (f) = - k x acceleration (a) â = - (k/m) x where acceleration is, x is the displacement of the system from its equilibrium position, m is the mass of the system and k is a constant associated with the system. Explanation: In simple harmonic motion, acceleration is proportional to the distance from the reference point and directed towards it.Opcion 3 is correct. The learning platform No. 1 of India begins the complete complete examination Gnitanereffid yb nevig siâ â â â âemhs by Yticolev Fo Noitauqeâ â â,eht â€â¢.ycneuqerf â‰â Ecnatsid eht s x erehw )i(..... )â•â‰â (Soc (Soc A = X :yb Nevig siâ â ã,mhs eht = x dna ecrof = F erehW x- Â±ÃÂ ÃF .muirbiliuqe morfÂ Ãtnemecalpsid eht ot lanoitroporp yltcerid si ecrof gnirotser ehtÂ Ãnehw sruccoÂ Ãnoitom cinomrah elpmiS :TPECNOC )ÃÂ + tÂ ‰ã (Soc A2â‣ â€â€TMs : 1 Noitpo )â† + tâ‰â (Nis Aâ‣ â€â€TMet â€â‣ â‣ â‣ (Nis A2â‣ â€â€ã¢†â‣ tâ‰â (Soc aâ‰â â€â€TMet)â€TO, tâ†â†â â€â€â Stnnedures +073,81,98,2 yb detsurt ppa daolnwod eerf detrats sezziuq & STTET KMAB Noitseuq ecitcarp sessalcrets edpmoc edpmoc edpmoc edpmoc edpmoc edpmoc Noitpo the rewsna Terroc Eht os )\}b{trqs\{}ipfd\=t(\ )mo{}agemo\{}age}â€ã 2{carf\=t(\ bâšâ^â^ã 2{carf\. ¢ =h =â ã,â‰â B = 2âââ S‰âââ S^âê elecca Fo noitauqe eht htw of erarapmoc .tnatsnoc yna b dna ,noitisop naem eht morf tnemecalpsid eht x ,noitarecca eht y erehw ,xb- = Noitahe tauqeâ \}€T{}â€ã 2{carf\=Mage\(\ :yb nevig ni MHS Foâ ã‰â Ãâ nevig si )f( ycneuqerf dna )t( Doirep emit neewteb noitaler eht .Noitallicso netpmoc ot nekatâ â,emitâ â,:)t( Doirep emit Eht A Erehw X2â‣ - = A noitarellecca fo noitauqe noitin elpmis rof .muirbiliuqe morf tnecalpsid eht = x DNA ECROF = F Ehl Yltcerid Ecrof Gnirotser ehtâ ã,nehw Sruccoâ ã,noitom cumrah elpmis :tpecnoc )\}b{trqs\{}ip\ 3 noitpo )\}b{trqs\) \}b{trqs\{}opfd\(\)\)\)\)\)\)\)\)\)\)\}{carfd\(\)\)\)\{Cardfd\{trqs\ stranddusts( stranduests also ezziuq & stest kcom knab noitseuq ecitcarp sessalcretssam Evil yliad In , and ï ‰ is angular frequency. In the same way, the displacement equation can be obtained from the speed equation by integrating the speed equation. Calculation “n: v = - aï ‰ without (ï ‰ t+ï †) The acceleration is given by: a = dv/dt = d ( - aï ‰ without (ï ‰ t+ï †)/dt = â € Ï ‰ 2a cos (ï ‰ t + ï †). So Opcion 1 is correct. Indian Learning Platform Confer 2,89,18,370+ students \ (\ dfrac {1} {6} \) times6 times \ (\ dfrac {1} {\ sqrt {6} \) times concept: simple pendulum: when a dough of point is It suspends with the help of a rope or insignificant mass rod and makes the movement to and fr on its average position is called as a simple pã © ndulo. For a simple pã © ndulo, the oscillation time permit ndulo depends on the length of the rope and the acceleration due to gravity. It is life for small angular displacements. Where? t = time of or scilation, l = length of the pã © ndulo, and g = gravitational acceleration = 2 {\ rm {\ pi} \ sqrt {{\ fraud The time permit on the moon (t ') is given by: \ (t' = 2 {\ rm {\ â What? ©? T '= â^Š6 T ASã that Opcion 3 is correct #1 Indian learning platform begins the preparation of the complete examination Daily Live

Masterclasses Phalses of the bank Mock & AMP tests; you may start to download free app Confesses at 2,89,18,370+ students Concept: Simple ndulum An ideal simple ideal consists of a body of heavy dough (Bob) suspended by an inextensible, inextensible and perfectly flexible rigid support chain on which it is free to range. For a simple pã © ndulo, the oscillation time permit of a pã © ndulo depends on the length of the chain and acceleration due to gravity, \ (righttarrow t = 2 \ pi \ sqrt {\ fraud {l} {g } The anterior formula is only vian for small angular displacements. Where? T = oscillation time, l = length of the ndulum, and g = gravitational acceleration calculation: given \ (m_ {2} = \ fraud Give how, \ (righttarrow t = 2 \ pi \ sqrt {\ fraud gravitational acceleration since the time permit of the simple pã © ndulo does not depend on the mass of the bob, so the change in the mass of the bob will not affect the time permit of the pã © nndulo. Therefore, option 4 is correct. Learning Platform #1 of India begins Preparation of the complete examination Daily Live Masterclasses PHYCTIC TESTS OF THE BANK TESTS OF THE MOCK & TALLZES begins to download for free app conf. Elaptic opcion 3: Simple armed mocyon Concept: simple mocion harmonic: it is a special type of periodic movement, in which a particle moves and moves repeatedly on a medium position. In S.H.M linear, a restoration force that is always directed towards the average position and its magnitude at any moment is directly proportional to the displacement of the part of the average position at that moment, that is, the restoration of the force displacement of the part of the part of average position. F -x f = -kx where k is known as force constant. Explanation: the circular movement an object movement along the circumference of a cup or rotation along a circular path. There is no force that acts on the particle. Therefore, option 1 is incorrect. a movement, which is repeated over and over again after a regular time interval is called periodic movement. Therefore, option 2 is incorrect. From above it is clear that the restoration force is proportional to the movement of the body in a simple harmonic movement. Therefore, option 3 is correct. the learning platform number 1 of the Indian begins the complete preparation of live exams. live magisterial nails practice of queries bank simulacros and questionnaires begin for a free download application confidence by 2,89,18,370+ regular students but not simple harmonic non-recurrent nor simple harmonics and simple harmonics harmonicsimple harmonicsimple harmonicue but not the periodic option 1: harmonic newspaper but not simple, the correct answer is option 1,) that is, the harmonious periodic but not simple. concept: the periodic movement is a type of movement where the movement is repeated at regular intervals of time. explanation: the circular motion of a particle with constant velocity is "unit circular motion. due to constant speed, the object will cover equal distances in equal intervals of time. Therefore, the circular movement will be repeated at equal time intervals. So, it's a periodic move. in a circular motion, the object cannot oscillate approximately a fixed position as it travels circular distances. Therefore, it is not a simple harmonic movement. the learning platform number 1 of the Indian begins the complete preparation of live exams. live magisterial nails practical mock tests & trozes start the free download application confidence by 2,89,18,370+ students directly proportional to their reverse rate proportional to their speedproportion to the proportion directly to its displacement of its average position independently proportional to its displacement of its average position 3: directly proportional to its displacement from its average medium position The simple harmonic movement (S.H.M) is a type of periodic oscillation where the restoration force is proportional directly to the displacement. The movement of a simple pendulum is a good example of simple harmonic movement in which Bob freely swings along with the lowest and highest position under the influence of gravity, also a spring that swings around his middle position is considered as a simple harmonic movement. For a simple harmonic motion restoration force is directly proportional to its displacement from its middle position, i.e., â f â ‡ â` f = -kx here, f = restoration/force exercised x = displacement and k are proportional constants. Explanation: From the above explanation, we can see that, for a simple harmonic motion restoration force, it is directly proportional to its displacement of its average position, i.e., â f â ¬ ¬ -x, therefore, option 3 is correct between all # of India # 1 Learning platform Start Complete Preparation of exams Daily of magisterial classes in live Practices Tests Bank Mock Tests & motion Example: motion of a pendulum without damping, spring mass system without damping. The equation of shm is given by: x = a without (i î î ì¸) where a is amplitude, ï 1,000 is angular frequency, t is time and î î î í í is the initial phase angle Explanation: of the given graph: at the time (t) = 0 The displacement (x) of the body is equal to A. x = a without (i î î î . 89,18,370+ }yarrA{ nigeB \( \ noitarelecCA y yticoleV somenetbo roiretna n³Ãicauce al raicnerefid la ,otnat ol roP .esaf ed olugn¡Ã = ¸Â®Ã y opmeit se t ,ralugna aicneucerf = °â ¯Ã ,adno ed ¢Ãdutilpma = a ednod ),¸Â®Ã + t °â ¯Ã( nis nu = y :rop adad eneiv adno al arap lareneg n³Ãiserpxe aL rodidem/notweN se .I.S dadinu uS .etnatsnoc azreuf omoc econoc es k ednod xk- = f x F .aidem n³Ãicisop al edsed alucÃtrap al ed otneimazalpsed led n³Ãicaruatser ed azreuf al ,riced se ,etnatsni ese ne aidem n³Ãicisop al edsed alucÃtrap al ed otneimazalpsed la lanoicroporp etnematcerid se etnatsni reiuqlauc ne dutingam ayuc y aidem n³Ãicisop al aicah egirid es erpmeis A ed n³Ãicaruatser ed azreuf aL .M.H.S laenil nE .etnemaditeper aidem n³Ãicisop anu ed neveum es A salucÃtrap sal euq le ne ,ocid³Ãirep otneimivom ed laicepse opit nu se elpmis ocin³Ãmra otneimivom le :elpmis ocin³Ãmra otneimivom :otpecnoC zH ¬â Ã/ 005ZH ¬â ¯Ã/003ZH ¬â ¯Ã/0001ZH ¬â ¯Ã/002 setnaidutse +073,81,98,2 rop aznaifnoC atiutarg agracsed ed n³Ãicacilpa al naznemoC seruomeT & stseT kcoM ocnaB satnugerP ecitcarP sretsaM retsaM eviL yliaD oviv ne nemaxe led atelpmoc n³Ãicaraperp al azneimoc aidnI al ed 1 oremºÃn ejazidnerpa ed amrofatalp aL .atcerroc se 4 n³Ãicpo al ,secnotnE 4/¬â ¯Ã7 ¢Ã = etnatsnoc esaF )4/¬â ¯Ã7 + t °â ¯Ã( nis 2¡ÃË¢Ã = x ,otnat ol roP )4/¬â ¯Ã7 + t °â ¯Ã( nis 2¡ÃË¢Ã = ¢Ã )4/¬â ¯Ã - ¬â ¯Ã2 + t °â ¯Ã( nis 2 ¡ÃË¢Ã = )4/¬â ¯Ã :¬â ¢Ã t °â ¯Ã + ¬â ¯Ã2( nis 2¡ÃË¢Ã ¢Ã = )4/¬â ¯Ã :¬â ¢Ã t °â ¯Ã( nis 2¡ÃË¢Ã = x :euq odaD :n³ÃicacilpxE .esaf ed etnatsnoc o laicini esaf ed olugn¡Ã le se ¸Â®Ã y opmeit se t ,ralugna aicneucerf al se °â ¯Ã ,dutilpma se a ednod ),¸Â®Ã + t °â ¯Ã( nis a = x :rop adad eneiv ¢Ãmhs ed n³Ãicauce aL .n³Ãicaugitroma nis arevamirp ed asam ed ametsis ,n³Ãicaugitroma nis oludn©Ãp nu ed otneimivom :olpmejE .otneimazalpsed led otneimazalpsed led al a atseupo n³Ãiccerid ne aºÃtca y "lanoicroporp se azreuf al ed n³Ãicaruatser al ednod ," ocid³Ãirep otneimivom ed laicepse opit nu se elpmis ocin³Ãmra otneimivom le :)MHS( elpmis ocin³Ãmra otneimivoM otnemom otnemom reiuqlauc ne otneimazalpsed = y ,ednod )\ }yarra{ dne \ })thgir \ }}2^y{ - }2^a{{( odreiuqzi \{ trqs \ agemo \ = )thgir \ v( odreiuqzi \ }};\{ mr \ { yticoleV \\ y }2^ agemO \{ - = )thgiR \ A( adreiuqzi \ }};\{ mr \{ n³ÃicarelecA A = amplitude ï ¢ = angular frequency â = 2ï € f = (2ï € ‹/t) t = time period F = frequency explanation: Comparison with the standard equation â€: x = 0.1 without (1000T + 0.1) Width (A ) = 0.1 ï ï ¢ = 1000 \ (\ rectarrow \ omega = 2 \ straight \ = pirrow = 2 \ Therefore, the frequency of oscillation is (500/ï €) India's #1 learning platform begins the complete preparation of live exams. Trusts more than 2.89,18,370 more students concept: Wave is a disturbance that transfers energy from one place to another. The general expression for the wave is given by: and = a without (i ی + î î¸) where a is wave amplitude, ï ù is angular frequency, t is time and î is a phase angle. Explanation: Since: y1 = 20 without (4ï € t + ï € /4) Then, phase angle for this wave = î 1 = ï € ï € ï € ï € 20 without (4ï € t + ï € /3) phase angle For this wave = î¸2 = ï €/3 then phase difference = î î¸2 â € “î¸°1⁄2” Student Concept: Simple Harmonic Movement (SHM): Simple Harmonic Movement is a special type of periodic movement or oscillation where the restoration force is directly proportional to displacement and acts in the opposite direction to that of displacement. Example: motion of a pendulum without damping, spring mass system without damping. The equation of shm is given by: and = a without (i + + î¸) where a is amplitude, ï 1,000 is the angular frequency, t is time and î î is the explanation of the initial phase angle: since: y1 = 12 without (50 t + ï €/2) angle of yliaD yliaD eviL yliaD eviL yliaD eviL yliaD eviL nemaxe led atelpmoc n³Ãicaraperp al azneimoc 1# ejazidnerpa ed amrofatalp aL ¢â aidnI 6/¬â ¯Ã = 3/¬â ¯Ãâ ¬â ¢Ã 2/¬â ¯Ã = 2¸Â®Ã â¬â ¢Ã 1¸Â®Ã = )¸Â®Ãâ Ã( aicnerefid esaf 3/¬â ¯Ã = )2¸Â®Ã( esaf ed olugn¡Ã )3/¬â ¯Ã + t 05( nis 21 = 2y 2/¬â ¯Ã = )1¸Â®Ã( Practice Practice Question Bank Mock Tests & Quizzes Get Started for Free Download App Trusted by 2,89,18,370+ Students For an S.H.MÃ theÃ restoring forceÃ is directlyÃ proportional to the square of its displacement.For an S.H.MÃ theÃ restoring forceÃ is directlyÃ proportional to its velocity.For an S.H.MÃ theÃ restoring forceÃ is directlyÃ proportional to the angular velocity.For an S.H.MÃ theÃ restoring forceÃ is directlyÃ proportional to the displacement. Option 4 : For an S.H.MÃ theÃ restoring forceÃ is directlyÃ proportional to the displacement. Concept: Simple harmonic motion (S.H.M) is a type of periodic oscillation where the restoring force is directly proportional to the displacement. The motion of a simple pendulum is a good example of simple harmonic motion in which bob is oscillating freely along with the lowest and highest position under the influence of gravity. Explanation: From the above explanation, we can see that, for a simple harmonic motion restoring force is directly proportional to its displacement from its mean position i.e.,Ã f ¢ÃÂÂ -x ¢ÃÂÂ f = -kx Here, f is restoring force, x is displacement and k is proportionality constant. Also in the above expression, a negative sign represents that restoring for and displacement is in the opposite directions.Ã India¢ÃÂÂs #1 Learning Platform Start Complete Exam Preparation Daily Live MasterClasses Practice Question Bank Mock Tests & Quizzes Get Started for Free Download App Trusted by 2,89,18,370+ Students E =Ã EaÃ + EbE =Ã EaÃ - 2Eb¢ÃÂÂE =Ã ¢ÃÂÂEaÃ + ¢ÃÂÂEbE =Ã ¢ÃÂÂ(EaÃ Eb) Option 3 : ¢ÃÂÂE =Ã ¢ÃÂÂEaÃ + ¢ÃÂÂEb The correct answer is option 3) i.e.Ã ¢ÃÂÂE =Ã ¢ÃÂÂEaÃ + ¢ÃÂÂEb CONCEPT: Simple harmonic motion (SHM): It is a type of oscillatoryÃ motionÃ in which the restoring force is directly proportional to the displacement of the body from its mean position. The energy in simpleÃ harmonic motion:Ã Ã The total energy of a particle executing SHM is the sum of its kinetic and energy. The cynical energy is given by the equation: \(ke = \frac{1}{2}mω ^2 (a^2 - y^2)\ the potential energy is given by the equation: \(pe = \frac{1}{2}{2}{2}{2/2y^2\) calculation: potential energy at a, \(E_azz = \frac{1}{2 bank

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