Rlc circuit mcq pdf download online pdf converter

The correct answer is to item 2), i.e. Tan-1 (2Ã∞ â¬). Concept: LCR circuit: An elÃ ©trico circuit that constitutes an inductor (L), capacitor (c) and resistor (r) connected in sÃ© rie or parallel Ã© circuit called LCR circuit. For an inductor (L), if we consider the current (i) as the axis of reference, the item leads to 90 Â°. For the capacitor (C), the item is 90 Â°. This is represented by the phasor diagram. Phase diagrams are µ of the relationship of items (v) - current (i) in AC circuits. A phaser There is a vector that rotates on the origin. The Angle between the phasor and the current is called the phase angle and is indicated by Ã®Â. From the phasor diagram, \ (tan Ã®Â, = \ frac {v_l-v_c} {v_r} \) — (1) using Ohm's law, v = ir vl = i xl, vr = i r, vc = i xc — (2) Where XL There is inductive reactance, XC There is capacitive reactance and R There is resistance substitution (2) at (1), we get, \ (tan Ã®Â, = \ frac {x_l-x_c} {R} \) a given inductance (l) and capacitance (c): xl = Ã∞ â° l and xc = \ (\ frac {1} {Ã∞ â° c} \) where Ã∞ â° Is the angular frequency given by: Ã = 2¬ f and fÃ© the frequency in Hz. Calculation: Since: v = 220 V f = 50 Hz â i 'Ã∞ â° = 2 â ¬ f = 2 â0 \ (tan Ã®Â news = \ frac {x_l - x_c} {r} = \ frac {x_l} {r} = \ frac {40Ã∞ â¬} {20} = 2 \ pi \) Therefore, Ã®Â news = tan -1 (2Ã∞ â¬) As the capacitor is absent, we can assume C = 0. Therefore, we can calculate xc = \ (\ frac {1} {Ã∞ å ¾ ¾ ° c} = \ {1} {\ omega \ times 0} = Ã ¢ ËÅ When there is no capacitor connected in the circuit, the related terms capabilities are safely neglected by the ³. To continue enjoying our site, we ask you not to confirm your identity human. Thank you very much for your cooperation. As an Amazon member, I earn with the qualification qualification qualification McQSlearn Web Portal Copyright Â© 2014-2022. All rights reserved. Engineering Practice ElÃ ©trica MCQ Question and Answer Free PDF Download CBSE Physics Multiple choice Questions for Class 12 with Answers Chapter 7 Alternating Current. Music MCQs for Class 12 Chapter with Answers PDF download prepared based on the latest exam standard. Students can solve the NCERT Class 12 Music by alternating the current MCQS PDF with answers to know their preparation level. The alternating class 12 of class 12 MCQS PDF 1. The phase difference between alternating current and EMF Ã© TE/2. Which of the following cannot be the constituent of the circuit? (a) c alone (b) l alone (c) l and c (d) r and l Response/explanation Response: explains: (c) When the L and C components are there, the phase difference can be zero, less than or greater than \ (\ frac {\ pi} {2} \). 2. On an AC circuit of the LCR Series, you have it in each of the components L, C and R50 V. You have it in the LC combination will be (a) 50 V (B) 50 ËÅ2 V (C C (C) 100 V (d) Response/Explanation Zero Response: D Explanation: (D) The line between L and C is out of phase. Therefore, you have it in the combination of LC At zero. Physics MCQs with answers to class 12 Question 3. An AC circuit has a resistance of 12 ohm and an impairment of 15 ohm. The circuit pot factor will be (a) 0,8 (b) 0,4 (c) 0,125 (d) 1,25 Response/explanation Response: An explanation: (a) Potency factor, cos Â¦ = \ (\ frac {r} { Z} \) = \ (\ frac {12} {15} \) = 0,8 4. In an AC circuit, the voltage applied Ã© s = s0 sin (tit. The resultant current in the circuit Ã© i = 70 sin (berÃ¢ â¬ âNIL). Power consumption in the circuit Is given by response/explanation Answer: c Explanation: (c) Here, Â¦ = \ (\ frac {\ pi} {2} \), then pav = Ã® Âµrms Irms cos. Á¦ = 0 McQs of Physics for Class 12 Chapter In terms of PDF answers Question 5. In an LCR circuit, the capacitance is charged from C to 2c. So that the resonant frequency)c( )c(L 2)b(L 4)a(arap L ed adaretla res eved aicn¢Âtudni a ,adaretlani .31 .V 2ÂÂÃ¢022 = .smrV 2ÂÂÃ¢ = 0V egatlov ca fo eulav kaeP)c(:noitanialpxE c :rewsnA noitanalpxE/rewsnA V 2ÂÂÃ¢042)d(V 2ÂÂÃ¢022)c(V 2ÂÂÃ¢032)b(V 2ÂÂÃ¢002)a(si sniam V 022 a no egatlov ca fo eulav kaep ehT .21 c :rewsnA rewsnA .C ni esahp ni dna L ni esahp fo tuo era V dna I)d(.L dna C htob ni esahp fo tuo era V dna I)c(.esahp fo tuo era yeht ,C ni elihw L ni esahp ni era V dna I)b(.Rni rehto hcae htiw esahp fo tuo era V dna I)a(?eurt si gniwollof eht fo hcihw ,tiucric ?iCI na ot deilppa si egatlov CA na fI .11 .sesaerced egatlov dna sesaercni tnerruc remrofsnart nwod-pets a nI)a(:noitanialpxE a :rewsnA noitanalpxE/rewsnA ycneuqerF)d(rewoP)c(egatlov)b(tnerruC)a(?remrofsnart nwod-pets a ni desaercni si ytitnauq hcihW .01)\}}CL{trqs\{}1{carf\(\ = rv ,ycneuqerf ecnanoseR)c(:noitanialpxE c :rewsnA noitanalpxE/rewsnA no sdneped ycneuqerf tnanoser ,tiucric-RCL ,seires a nI .9 noitseuQ fdP 21 ssalC rof srewsnA htiw snoitseuQ eciohC elpitluM scisyhP .ÂÂÃ¢ = R os ,0 = I sa oslA .0 = L ,ecneh dna orez si xulf citengam os tiucric nepo na hguorht swolf tnerruc oN)b(:noitanialpxE b :rewsnA noitanalpxE/rewsnA orez ,orez)d(.ytinifni ,ytinifni)c(ytinifni ,orez)b(orez ,ytinifni)a(semoceb R dna L neht ,nepo si lioc fI .8 ÂÂABN = 0ÂµÂ ,tÂÂ nis ÂÂGBAN = ÂµÂ ,decudni fme)b(:noitanialpxE b :rewsnA noitanalpxE/rewsnA BAN)d(ÂÂRBAN)c(ÂÂBAN)b(RBAN)a(si lioc eht ni detareneg fme fo eulav mumixam eht B dleif citengam a ni ÂÂ ycneuqerf htiw setator ,R ecnatsiser latot dna A aera emas eht fo lla ,snrut N htiw lioc a ,rotareneg .c.a na nI .7 noitseuQ fdP srewsnA htiw scisyhP 21 ssalC rof snoitseuQ QCM a :rewsnA rewsnA .egatlov yradnoces eht esaercni)d(.gnorts dna tsubor ti ekam)c(.thgiew thgil ti ekam)b(.stnerruc ydde ot eud ssol ygrene eht ecuder)a(ot sa os detanimal si remrofsnart yna fo eroc ehT .6 .2/L ot egnahc eb dluohs L ,C2 degnahc si C nehw)\}}C L{trqs\ ip\ 2{}1{carf\=}r{_v(\ ,ycneuqerf ecnanoseR ,ecniS)c(:noitanialpxE c :rewsnA (d) (d) L/4 AC circuit has inductance L, resistance R and angular frequency for, the quality factor Q A© Response/Explanation Response: b Explanation: (b) The quality factor A© measure of resonance sharpness, A© equals \ (\frac{\omega L}{R}\). MCQ questions for the class 12 Pdf Question 14. A transformer A© used to light a 100 W 110 V lamp from a 220 V electrical network. If the main current is 0.5 A, the transformer efficiency is approximately (a) 30 % (b) 50 % (c) 90 % (d) 10 % Response/Explanation Answer: c Explanation: (c) Since the efficiency of a transformer, 15. Choose the correct declaration. (a) A capacitor can drive a DC circuit, but not an inductor. (b) In a DC circuit the inductor can drive, but not a capacitor. (c) In the dc circuit, neither the inductor nor the capacitor can drive. (d) The inductor has infinite resistance in a CC circuit. Answer: b Explanation: (b) In the DC circuit, an inductor offers zero resistance to DC, while a capacitor offers infinite resistance.)? 16. What is the value of the inductance L for which the Maximum current in a series of LCR-circuits with C = 10 Î¼F and = 1000 s-1? a) 100 mH (b) 1 mH (c) 10 mH (d) Cannot be calculated unless R is known Response/Explanation Response: o Explanation: (a) The maximum current at the pressure, when 17. An autoinductance coil L© connected in sÃ© rie with a lamp B and a source CA. The brightness of the lamp decreases when (a) the frequency of the source decreases. the number (b) of turns on the reduced © coil. (c) a rehab capability Xc = XL included. An iron rod is inserted into the coil. Answer: d Explanation: d) The brightness of the lamp decreases when inductive reactance increases, that is, when the iron bar is inserted into the coil, its inductance L increases, consequently the current decreases. MCQs from the physics class 12 Question 18. The accuracy of a C© X capacitor. If frequency and capacity are doubled, a nova reatÃ¢ncia serÃi(a)X(b)2X(c)4X(d)\(\frac{X}{4}\)(\frac{X}{4}\) egaT loV)a(rotudni mu ed osac oN .82 B :atsopseR atsopser alep odatneserper rohlem ©Ã orup ovitsiser otiucric mu me oÊÃsnet e etnerroc ertne esaf ed oÊÃ§Ãaler A .72 C :atsopseR atsopser ©Ã arugif A me adartsom v laicnetop ed aÃ§Ãnerefid ad smr rolav o .62 b :atsopseR atsopseR t ¯Ã nat mv =)t(v)d(t °â ¯Ã toc mv =)t(v)c(t °â ¯Ã nis mv =)t(v)b(t ¯Âe mv =)t(v)a(oÊÃ§Ãauqe alep adatneserper ©Ã)v(adanretla oÊÃsnet A .52 sttimdA)c(:oÊÃ§ÃacilpxE c :atsopseR aicn¢Âtudnocsnart ad oÊÃ§Ãacilpxe/atsopseR)d(oÊÃssimdA)c(aicn¢Âtudnoc) B(B(noitpecsuS)a(©Ã aicn¢Âdepmi ad ocorpiceR .42 .1 e 0 ertne airav AC otiucric mu me ¦Â soC aicnªÃtop ed rotaf O)c(:oÊÃ§ÃacilpxE c :atsopseR oÊÃ§ÃacilpxE/atsopseR 2 a 1)d(1 a 0)c(5 a 5,3)b(5,2 e 2)a(ertne airav aicnªÃtop ed rotaf O .32))\ }2{ }ip \{ carf \(\ ©Ã esaf ed olugn¢Ã(0 = soc 0i0v = vap ,orez ©Ã AC etnof amu arap odatcenoc odatcenoc rotudni mu me adapissid aid©Ãm redoP)c(:oÊÃ§ÃacilpxE c :atsopseR oÊÃ§Ãacilpxe/satsopser sassed amuhneN)d(orez)c(²Âil)b(²Âil)\ }2{ }1{ carf \(\ )a(©Ã etnof A .C.A mu a odatcenoc rotudni mu me adareg aid©Ãm aigrene .22 .AC ortemÃrepma olep rassap edop oÊÂn AC)a(:oÊÃ§ÃacilpxE amU :atsopseR oÊÃ§ÃacilpxE/atsopseR .odacifinad ¡Ãres AC ortemÃrepma O)d(.orez ©Ã otelpmoc olcic od etnerroc ad oid©Ãm rolav O)c(.oÊÃ§Ãatneiro arboc AC)b(.AC ortemÃrepma olep rassap edop oÊÂn AC)a(euqrop ,CC ortemÃrepma olep adidem res edop oÊÂn adanretla etnerroc A .12 .orez aid©Ãm etnerroC)a(:oÊÃ§Ãacilpxe amU :atsopseR oÊÃ§ÃacilpxE/atsopseR .esaf me oÊÃtse etnerroc a e oÊÃsnet A)d(.°Â 09 rop esaf ad arof etnerroc e oÊÃsnet)c(.V 022 ed aid©Ãm oÊÃsneT)b(.orez aid©Ãm etnerroc)a(iussop aur ad asac aus arap oÊÃ§Ãatnemila ed etnof a iarta euq ahnil A .02 .autºÃm aicn¢Âtudni ad oipÃcnirp o erbos anoicnuf rodamrofsnart O)c(:oÊÃ§ÃacilpxE C :atsopseR oÊÃ§ÃacilpxE/atsopseR .aicn¢Âtudni-otua)d(.autºÃm aicn¢ÂtudnI)c(.rosrevni)b(.rosrevnoc)a(od oipÃcnirp o erbos ahlabart rodamrofsnart mU .91 .sodarbod oÊÃs sobma C e F odnauQ :oÊÃ§ÃacilpxE :atsopseR)c( )c( )\ }2{ }¬â ¯Ã{ carf \(\ rop etnerroc a aredil oÊÃsnet)b( )\ }2{ }¬â ¯Ã{ carf \(\ rop etnerroc a aicr©Ãni)b(oÊÃ§Ãudni-otua)a(ed oipÃcnirp on anoicnuf rodamrofsnart mU .04 c :atsopseR atsopseR alep adatneserper ©Ã CL otiucric on seµÃ§Ãalicso sad)0ac(larutan aicnªÃuqerf A .93 d :atsopseR olugn¢Ã)d(ohlabart)c(aicnªÃ¼Ãqerf)b(opmet)a(ed seµÃsnemid sa mªÃt aicnªÃtop ed rotaf o e edadilauq ed rotaf O .83 a :atsopseR otinifni)d(orez)c(aminÃm)b(amixiÃm)a(©Ã eir©Ãs me RCL otiucric on aicn¢Âtudni a ,aicn¢Ânosser ed aicnªÃ¼Ãqerf aN .73 b :atsopseR otinifni)d(orez)c(aminÃm)b(amixiÃm)a(©Ã eir©Ãs me RCL otiucric on aicn¢Âdepmi a ,aicn¢Ânosser ed aicnªÃ¼Ãqerf aN .63 d :atsopseR °Â0)d(°Â06)c(°Â54)b(°Â03)a(©Ã otiucric on etnerroc a e adacilpa oÊÃsnet a ertne esaf ed a§Ãnerefid A .etnemavitcepxe ,V 04 e V 02 ,V 02 ed ©Ã rotsiser e roticapac ,rotudni mu me oÊÃsnet a ,eir©Ãs ad RCL otiucric mu mE .53 a :atsopseR atsopseR atsopseR ©Ã etnerroc a e oÊÃ§Ãatnemila ed oÊÃsnet a ertne esaf ed olugn¢Ã o ,eir©Ãs ad RCL otiucric oN .43 c :atsopseR atsopseR setsed muhneN)d(orup ovitsiser otiucriC)c(orup ovitudni otiucriC)b(orup oviticapac otiucriC)a(? 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