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Chemistry matter and change chapter 5 assessment answers pdf answers free

C, external configuration is S2 C, external configuration is S2 You can help us by reviewing, improving and updating this response. Update this reply after claiming a reply you will have 24 hours to submit a draft. An editor will review the submission and publish your submission or provide comments. Next answer Chapter 5 – Electrons in Atoms – Standardized Test Preparation – Page 157: 11 Previous answer Chapter 5 – Electrons in Atoms – Standardized Test Preparation – Page 157: 9 Reading a free preview 5 to 6 not available show in this progress. Turn your PDF posts into a flip book with our only optimized electronic paper software from Google. Copy Chapter 5 Evaluation Extended Embedding Configuration Copyright Glencoe/McGraw-Hill, a division of McGraw-Hill Companies, Inc. Solutions Manual Chemistry: Matter and Change Chapter 5 73 Solutions Manual Chapter 5 Chapter 5 Pages Evaluation 166 169 5.1 Concepts of Control 34. Define the following terms. a. Frequency frequency is the number of waves passing a given point per second. B. The wavelength of wavelength is the shortest distance between equivalent points on a continuous wave. Quantum Quantum is the minimum amount of energy that can be lost or gained by an atom. Fundamental state A fundamental state of atoms is their lowest energy state allowed. 35. Arrange the following types of electromagnetic radiation in order of increasing wavelength. a. Ultraviolet light. Microwaves. Radio Wavesd. X raysd. X-rays, a. Ultraviolet light, b. Microwave, c. Radio Waves 36. A gamma ray has a frequency of 2.88 3 1021 Hz. What does that mean? 2.88 3 1021 Gamma-ray electromagnetic waves of this frequency pass one point per second. 37. What is the photoelectric effect? A phenomenon in which a metal emits electrons when the light of a ed ed atelpmoc ortcepse le eneitnoc ralos zul al euq sartneim ,selbisiv seroloc sotreic olos eneitnoc n³Aen ed orertel nu ed zul aL ?ralos zul al ed n³Aen ed orertel nu ed zul al erefid om³ACzÁ n³Aen ed la±AeS .83TI ne allirb etneicifus 6,5 ed aicneucerf anu noc n³Aicaidar .cyar ed Xmn 2,4 ed adno ed dutignol anu noc n³Aicaidar .bderarfn12s 1101 3 6,8 ed aicneucerf anu noc n³Aicaidar .soyar X sadnoorcIM22018101 61014101 210101 801601 401ocit©Angamortcele ortcepsEsojorarrfni ateloivartlu ammag soyar soidaRsoicreh ne)1(aicneucerF.n³Aicaidar ed sopit setneiugs sol ed onu adac ranimreted arap 02,5 arugi al ecillU .54n³Aicaziresam ed sameiborF5 OLUTÁPACSENOICULOS ED LAUNAMSenoculos ed launaM 5 olutÁpaC oibmac y airetaM .acimÁuQ 47.cnl ,seinapmOC lliH-warGcM eHT ed n³Aisivid anu ,llilH-warGcM/eocnelG thgirypOC.sateivoivartlu sadno sal euq ajab siAm aicneucerf anu y agral siAm adno ed dutignol anu neneit oidar ed sadno sal. s/m 801 3 00,3 ,oAcav ne dadioceiv ansim al a najav sadno ed sopit sobnA ³setnerefid nos om³ACzÁ ?sateivoivartlu sadno sal y oidar ed sadno sal seralimis nos om³ACzÁ .44 .sarutarepmet setnerefid a zul ed saicneucerf setnerefid etime airetam al ©Aug rop y acim³Áta n³Aisime ed sortcepse sol ,ocirtc©Áleofof otcefe le acilpxe on sadno ed oledom IÉ ?airetam al noc secul sal ed n³Aiccaretni al noc sadanoicaler zul al ed adno ed oledom led saicneicifid sert nos seliÁuCzÁ .34 aÁgrene siÁm y siÁm ereiuqda oteþbo le euq addem a aihmac zul al ed roloc IÉ?arutarepmet us atnemua euq addem a etnalirb y odatnelac oteþbo nu rop aditime zul al noc edecus ©ÁuQzÁ arutarepmeT .24 .ajab siÁm aicneucerf anu y agral siÁm adno ed dutignol anu neneit sajor sadno sal. ?siri ocrA nu ne sedrev y sajor sacit©Angamortcele sadno sal ertne saicnerefid sod nos seliÁuCzÁ siri ocrA .14.n³Artceleotof nu ed n³Aicceye al rasuac arap ,larbmu o .aÁgrene ed ominÁm levin odanimreted nu renet nebed senotof sol euq osuporP ? ocirtc©Áleofof otcefe le nietsniE ³Aicilpxe om³ACzÁ .04.skcnalP ed etnatsnoc se h ednod ,nh ed soretno solpitÁm nos euq atercsid atnauq ne olos aÁgrene rebrosba o ritime edeup airetam al ,n ,adad aicneucerf anu arap ,kcnalP n³ÁgeS.airetam al rop adanag o adidrep aÁgrene al a ereifer es euq ol ne kcnalP ed ocitniÁuc otepcnoc le euqilpxE radio station. ³ radiation traveling at a speed of 3.00 3 108 m/sany EM wave 46. ÁWhat is the wavelength of electromagnetic radiation ³ has a frequency of 5.00 3 1012 Hz? What kind of electromagnet do you want? is this? 5 c/n 5 3.00 3108 m/s __ 5.00 3 1012 s21 5 6.00 3 1025 minfrared radiation 47. What is the frequency of electromagnetic radiation that has a wavelength of 3.33 3 1028 m? What type of electromagnetic radiation is this? 5 c/n 5 3.00 3108 m/s __ 3.33 3 10-8 m 5 9.01 3 1015 s21UV radiation 48. What is the velocity of an electromagnetic wave that has a frequency of 1.33 3 1017 Hz and a wavelength of 2.25 nm?n 5 c/lc 5 ln 5 (2.25 3109 m) (1.3) 3 1017 s1) c 5 3.00 3108 m/s 49. What is the energy of a photon of red light that has a frequency of 4.48 3 1014 Hz?Ephoton 5 hn 5 (6.626 3 10 234 J ? s) (4.48 3 1014 s 21) 5 2.97 3 10 219 J 50. The atomic emission spectrum of Mercurys is shown in Figure 5.21. Estimate the wavelength of the orange line. What's your frequency? What is the energy of an orange photon emitted by the mercury atom?Hg (nm) 400 450 500 550 600 650 700l 615 nm 5 6.15 3 1027 nm 5 c/l 5 (3.00 3108 m/s) / (6.15 3 1027 m) 5 4.83 3 1014 s21Ephoton in 5 hn 5 (6.626 3 10 234 J ? s) (4.83 3 1014 s21) 5 3.23 3 10 219 J 51. What is the energy of an ultraviolet photon that has a wavelength of 1.18 3 1028 m?n 5 c/l 5 3.00 3108 m/s __ 1.18 3 1029 m 5 2.54 3 1016 s21Ephoton 5 hn 5 (6.626 3 10 234 J ? s) (2.54 3 1016 s21) 5 1.68 3 10 217 J 52. A photon has an energy of 2.93 3 10 225 J. What is its frequency? What type of electromagnetic radiation is photon 5 4.42 3108 s21; TV or FM wave 53. A photon has an energy of 1.10 3 10 213 J. What is the wavelength of photons? What type of electromagnetic radiation is 5 Ephoton/h 5 (1.10 3 10 213 J) __ (6.626 3 10 234 J ? s) 5 1.66 3 1020 s21 15 c/n 5 (3.00 3108 m/s) / (1.66 3 1020 s21) 5 1.81 3 10 212 man X-rays o gamma radiationCopyright Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc.Solutions Manual Chemistry: Matter and Change Chapter 5 75SOLUTION MANUAL CHAPTER 5 54. 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J 43201 3 626.6(5 NH 5 NotohPem 178.2 5 12S 801 3 540.1 __)S/m 801 3 3 00.3 5 n/c 5 lzh 3. 2 zhm 5 zhm 5 zhm 2 zhm 2 zhm 2 zhm 2 zhm 5 ygrene eht ? 2101 3 27.2(5 V/D 5 m 2101 3 27.2 5 MK T __ m 0001 3 3 3 901 3 27.2 5 d .4 5 emit __ ecnatsid teloivartluU?seires namyl snegodyh ni senil teloivartlu eht ecudorp snolitsnart libro-nortcele fo epyt tahw .32.5 eruqif ni nwohs ledom rhoB eht ot qnidrocca notisnarT nortcele .56 5 REIPAHLAUNAM SNOITULOSIaunaM snoitulo5 5 retpahC eqnahC dna rettaM .ym rtsimehC 67.cnl ,seinapmOC lliH-warGcM eHT fo noisvid a ,llilH-warGcM/eocnelG thgirypOC.laLibro eHT fo ygrene dna ezis evitaler eht setacindi hcihw .rehmun mutnaug lapicnirp slatibro na stneserper n ?mota eht fo ledom laci-nahcem mutq eht ni tneserper n seod tahW .4W itacol eibaborp snortcele na gnibrcsed suelcun eht dnuora noiger lanoisnemid-eerht A ?latibro cimota na si tahW .36 regnidrhCS niwrE :mota eht fo ledom lacinahcem mutnaug ehT ?ledom siht of del taht snoitauge evaw nortcele eht etorw tsrif ohW ?sewav sa detaert era snortcele hcihw ni ledom cimota fo

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