TARLES CHOICES (1 pts each)		
1. Which one of the Car		
(A) Atom of the same older	nodern view	
(A) Atom of the same element has equal number of protons and electrons (B) Every atom has equal number of protons and electrons		
(C) Every atom is made in the first	one and electrons	
(C) Every atom is made up of molecules (D) Proton and electron		
(D)Proton and electron reside together in (A) Atom with different about isotope	thomas	
2. One of the following is true about isotope (A) Atom with different atom.	the nucleus of an atom	
(B) Atom of a given element have the same atomic number (C) Atom with different proton number		
(C) Atom with different proton number (D) Atom of a given of		
3 Which	20	
(D) Atom of a given element have the same mass number (A) Ozone (B) Water (C) Nitrogen		
(B) Water	(C) Nitro	
2 4. One of the following compounds is not be (A) Ammonium bromide	uild from a polymer .	
(B) Cobalt (II) nitrate	(C) Potassium sulfate (\$0%)	
D 5. Which one of the fellow	D) Iron (III) chloride jeci	
D 5. Which one of the following is true about 1 (A) The bond is formed by equal sharing of	polar covalent bond	
(A) The bond is formed by equal sharing of pair of electrons /		
 (B) The bond is formed by electron transfer within an organic compound. (C) The bond is formed due to unequal sharing of pair of electrons in the formed 		
ionic compound	armig of pair of electrons in the formed	
(D)The bond is formed due to the differe individual atoms	ence in electronegativity.	
individual atoms	between	
6. Which of the following molecule has the strongest bond? (A) Oxygen molecule		
(B) Hydrogen molecule	(C) Nitrogen molecule	
7. What is the possible geometry in sp³d h	(D) Fluorine molecule	
(A)Linear		
(B) Trigonal bipyramidal	(C)Tetrahedral (D) Octahedral	
9 8. What kinds of hybrid orbitals are formed	ed between sulfur and acceptance	
8. What kinds of hybrid orbitals are formed between sulfur and oxygen atoms in sulfur dioxide molecules?		
(A)sp	$(C)_s p^3$	
(B) sp^2	(D) sp ² d	

(A) Iron (B) Magnesium	elength when they are burned. Determine which st energy? (C) Sodium (D) Potassium (C) Icu(NH4)4]Cl (C) [Cu(NH4)4]Cl (D) (NH4)2[CuCl4]
rt II: Short Answer	
(a) Write the complete chemical Ans: 1 Mg , 1 Mg (b) How many neutrons are in Ans: 12 , 13 2. What are the most probable End hydrogen peroxide molecule, H-O-O-H. (3 pts) 3. Write the balanced chemical end with liquid water would yield (1 pts) Ans: 2 NOC s) + 2 H10Ce) - 4. A 5.325 g sample of methyl be perfumes, contains 3.758 g of and the molecular mass of the (A) What is the empirical for (B) What is the molecular for (B) What is the molecular for (C) and the molecular mass of the (A) What is the molecular for (B) What is the molecular for (C) A strip of aluminum metal was containing 2.50 g of copper (3 pts) 2Al(s) + 3Cu(NO ₃) ₂ (aq) → 3 (A) Which reactant is limiting	an atom of each isotope, respectively?
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(3 pts) (A) Which molecule has the highest bond order? (B) The most stable molecule is		
From the two electromagnetic wave representations; (2 pts)		
I		
(A) Which wave has the higher frequency?		
(B) If one Wave represent Infrared light and the other represent Ultraviolet light,		
Which wave is Ultraviolet and infrared, respectively? and		
For the complex $[CO(N\Pi_3)4(\Pi_2O)CI]CI_2$,		
(A) Oxidation number of central metal ion +/		
(B) The condensed state electron configuration of central metal [AV] 45° 30		
(C) The coordination number of the metal + 4 (D) Systematic name of the complex Source delicated agriculture of the complex.		
(D) Systematic name of the complex 90000 16100 1		

workout, Show the necessary steps

What is the momentum, wavelength, energy, and frequency, of an electron traveling at 1.25×10⁵m/s if the mass of the electron is 9.11×10⁻³¹ kg? (4 pts)

P=mv, 1=1, E=1, N=1