Name		AP Ch	emistry					Ĩ	1	
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Chapter 7 HW 5: Due 1/18/16 Complete the following multiple choice questions. All will be graded. Write your answer clearly on the line in front of the question.										
Use the chart to the right to answer questions 1-4. Answers may be repeated.										
1. Represe	ents an atom that is chem	nically unreac	tive	(A) 1s	2s_ †					
2. Repres	ents an atom in an excite	ed state		(B) 1s <u>↓</u> ↑	2s <u>↓↑</u>					
3. Repres	Represents an atom that has four valence electrons.				(C) $1s \downarrow \uparrow 2s \downarrow \uparrow 2p \uparrow \uparrow \uparrow$					
C	Represents an atom of a transition metal.			(D) $1s \downarrow \uparrow 2s \downarrow \uparrow 2p \downarrow \uparrow \downarrow \uparrow \downarrow \uparrow$ (E) [Ar] $4s \downarrow \uparrow 3d \downarrow \uparrow \uparrow \uparrow \uparrow \uparrow$						
Question 5-6 refer to the (A) Lithium		Bromine	(D) Uraniu						· Manuscriptorium	
5 Is a ga	s in its standard state at 2	298 K			Sylven	Charles and the second				
6 Reacts with water to form a strong base										
7. What mass of Au is produced when 0.0500 mol of Au_2S_3 is reduced completely with excess H_2 ? (A) 9.85 g (B) 19.7 g (C) 24.5 g (D) 39.4 g (E) 48.9 g (E) 48.9 g										
8 When a solution of sodium chloride is vaporized in a flame, the color of the flame is (A) blue (B) yellow (C) green (D) violet (E) white										
9 The safest and most effective emergency procedure to treat an acid splash on skin is to do which of the following immediately? (A) Dry the affected area with paper towels (B) Sprinkle the affected area with powdered Na ₂ SO ₄ (s) (C) Flush the affected area with water and then with a dilute NaOH solution (D) Flush the affected area with water and then with a dilute NaHCO ₃ solution (E) Flush the affected area with water and then with a dilute vinegar solution										
$ C_{10}H_{12}O_4S(s) + 12O_2(g)> C_{02}(g) + SO_2(g) +$										
coefficient for O ₂ (g) is? (A) 6	(B) 7 (C)	12	(D) 14	(E) 28						
11										
12. A 1.0 liter sample of an aqueous solution contains 0.10 mol of NaCl and 0.10 mol of CaCl ₂ . What is the minimum number of moles of AgNO ₃ that must be added to the solution in order to precipitate all of the Cl ⁻ as AgCl(s)? (A) 0.10 mol (B) 0.20 mol (C) 0.30 mol (D) 0.40 mol (E) 0.60 mol										
	listed in the table to the		Ionization Energies for element X (kJ mol ⁻¹)							
right. On the basis of the (A) Na	data, element X is most (B) Mg (C)	100	(D) Si	(E) P	First	Second	Third	Fourth	Five	
	(=)	ರಾಭವನೆ	<u></u>	(-)-	580	1815	2740	11600	14800	
14. A molecule or an ion is classified as a Lewis acid if it: (A) accepts a proton from water (B) accepts a pair of electrons to form a bond (C) donates a pair of electrons to form a bond (E) has resonance Lewis electron-dot structures										

