Chem 130: Chemistry for Funeral Services Problem Set 3: Due 2/7/06

Name:	Date:
Each question is worth one point, unless otherwise not calculations are required. Short answer questions sho	
How is an isotope different than an atom? Car why not.	n an element have more than one isotope? Why or
Write the symbol notation for the hydrogen, de of each isotope.	uterium and tritium. Draw a sketch of the nucleus
3. (2 points) Describe the important characteristic is each one at penetrating materials? Based of dangerous? Output Describe the important characteristic is each one at penetrating materials? Based of dangerous?	es of alpha, beta and gamma particles. How good on that, which one is potentially the most
 Gold-198 undergoes beta decay by emitting a nuclear transmutation using proper atomic sym 	beta particle. Write the complete equation for this abolism. What element is produced?

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5.	,	nd shielding are the primary safety pr	-
6.	` '	mmon ways of measuring the effect of activity. In your own words, explain ean embalmer? Explain.	•