

**Problem Set 4****Chapters 4 and 25****Due Thursday Oct 24<sup>th</sup>****Nuclear Chemistry****Essay Due Oct 30<sup>th</sup>****Test Wednesday October 30<sup>th</sup>**

- Your work is to be done on separate sheets of paper.
- All of the papers should be stapled together in the upper left hand corner with this question sheet at the back of the packet.
- Each of your responses should be numbered the same way as it appears on this packet.

**Conceptual Questions**

- 1) State the law of conservation of mass.
- 2) Why are atoms unstable?
- 3) How do unstable atoms gain stability?
- 4) A radioactive element having atomic number 82 and atomic mass 214 loses a beta particle,  $0-1\beta$ . What is the resulting particle?
- 5) What type of decay is the reaction below, and what isotope completes this nuclear equation?  $27.13\text{Al} + 2.1\text{H} \rightarrow 4.2\text{He} + ?$

**Practice Questions**

- 6) Complete this chart on the three types of radioactive decay

Type	Symbol	Mass (amu)	Charge
Alpha			
Beta			
Gamma			

- 7) If the radioactive atom  $238.92\text{U}$  emits an alpha particle, the atom remaining is represented by  
(A)  $238.92\text{U}$     (B)  $238.92\text{Th}$     (C)  $238.92\text{U}$     (D)  $234.90\text{Th}$     (E)  $234.91\text{Pa}$
- 8) What term completes this equation?  $20.14\text{Si} + ? \rightarrow 32.16\text{S} + 0-1e$   
(A)  $4.2\text{He}$     (B)  $2.1\text{H}$     (C)  $1.1\text{H}$     (D)  $0-1e$
- 9) What particle is emitted when lead-214,  $214.82\text{Pb}$ , undergoes natural radioactive decay to bismuth-214,  $214.82\text{Bi}$ ?  
(A) an alpha particle,  $4-2\text{He}$     (C) a proton,  $1-1\text{H}$   
(B) a beta particle,  $0-1e$     (D) a neutron,  $1-0n$

**Extension Question**

- 10) Recently Alexander Valterovich Litvinenko was poisoned by radioactive polonium-210.
  - a. Research who he was and why he was poisoned.
  - b. Find out what polonium-210 does to people.

# Glencoe Chemistry Worksheet Answers Chapter 10

**Kalawati Soni, Priti Singhal**

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