

## BLITZ: Nuclear Form I-L

Name \_\_\_\_\_ Period \_\_\_\_\_

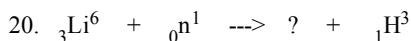
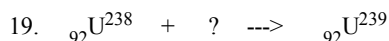
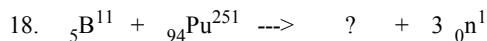
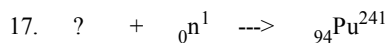
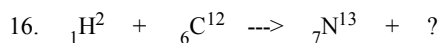
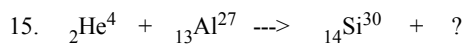
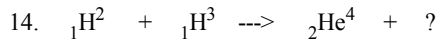
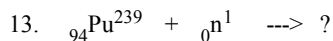
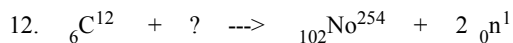
*This is a Take Home Exam. You may use your notes but you may NOT use help from human beings.*

**EXPLAIN IN COMPLETE SENTENCES AND GIVE EXAMPLES:**

**You MUST HAND WRITE THIS EXAM!! NO TYPED PAPERS WILL BE ACCEPTED!**

1. Define alpha, beta, and gamma rays, and using a diagram tell how they were discovered.
2. Using a diagram, explain how the charge-mass ratio of an electron is determined.
3. Explain nuclear fission and fusion and give an example of each.
4. Using a diagram, explain Isotopes and how they were discovered.
5. Using a diagram, describe how ions and the proton were found.
6. Discuss the meaning of half-life, and give an example.
7. Using a diagram, tell the function of the five parts of a nuclear reactor.
8. Using a diagram, tell how X-Rays are produced and two things they show us about atomic structure.
9. Explain critical mass and the chain reaction.
10. List five properties of radioactivity.

**\*\*\* COPY THESE EQUATIONS AND COMPLETE THEM ON YOUR PAPER:**



**When finished, please STAPLE this exam onto your papers and turn in on due date.**