**QUESTIONS TO HAND IN – EXPERIMENT 17**

**NAME\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**LAB INSTRUCTOR\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_LAB DAY/TIME\_\_\_\_\_\_\_\_\_\_ \_ \_\_**

**1.** Radioactivity is the spontaneous decay of atomic nuclei through the emanation of what three types of particles or rays?

**2.** Which of the three types of radioactive emanations generally has the most destructive power for living things (i.e., carries the most energy)?

**3.** What is the make-up of the alpha particle?

**4.** What is the make-up of the beta particle?

**5.** The beta is (circle one) **heavier/lighter/about the same mass** as the alpha.