Honor Code \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_

T

Time for a Little Decay

1. A syringe contains 45 mCi of 99mTcMDP. How much activity remains two hours later?
2. If your syringe contained 33.5 mCi of 99mTc-sestamibi, how much was in it 2 hours ago?
3. A capsule contains 157 µCi of 131I at 8 AM today. How much activity will there at 12N, three days later?
4. A 5.5 mCi vial of 111In was calibrated on 5/25 at 12N. How much activity remains on 6/1 at 3 PM?

111In T1/2 = 2.8 days

131I T1/2 = 8.02 days

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