CHEM1101

2010-J-2

June 2010

3

•	Radon gas decays into polonium with a half-life of 3.82 days via the following mechanism:
	$^{222}_{86}$ Rn $\rightarrow ^{218}_{84}$ Po + $^{4}_{2}$ He
	Give three reasons why $\frac{222}{86}$ Rn is biologically a very harmful nuclide.